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Report Number: 214-TRC-03-005

Safety Compliance Testing For FMVSS 214

Side Impact Protection

Indicant

Honda of America Manufacturing

2003 Honda Accord 4 door

NHTSA Number: C35308

Transportation Research Center Inc.

10820 State Route 347

P. O. Box B-67

East Liberty, OH 43319



Test Date: March 25, 2003

Final Report: April 7, 2003

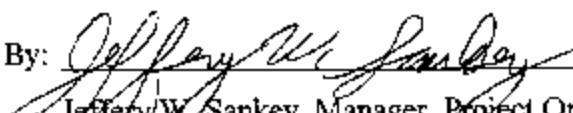
**U. S. Department Of Transportation
National Highway Traffic Safety Administration
Enforcement**

**Office of Vehicle Safety Compliance
400 Seventh Street, S. W.
Room No. 6111 (NVS-220)
Washington, DC 20590**

This Final Test Report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, under Contract No. DTNH22-02-D-11114. This publication is distributed by the U. S. Department of Transportation, National Highway Traffic Safety Administration, in the interest of information exchange. The opinions, findings, and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof. If trade or manufacturers' names or products are mentioned, it is only because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

Test Performed By: Jason D. Jenkins, Test Engineer

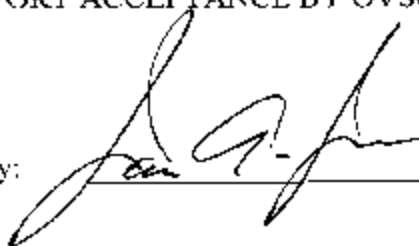
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Approval Date: _____

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By:



Acceptance Date:

9/10/03

1. Report No. 214-TRC-03-005	2. Government Accession No.	3. Recipient's Catalog No.																														
4. Title and Subtitle Final Report of FMVSS 214 Indicant Compliance Side Impact Testing of a 2003 Honda Accord 4-door, NHTSA No.: C35308	5. Report Date April 7, 2003	6. Performing Organization Code TRC Inc.																														
7. Author(s) Jeffery W. Sankey, Manager, Project Operations Transportation Research Center Inc.	8. Performing Organization Report No. 030325-1																															
9. Performing Organization Name and Address Transportation Research Center Inc. 10820 State Route 347 East Liberty, OH 43319	10. Work Unit No. (TRAIS)	11. Contract or Grant No. DTNH22-02-D-11114																														
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Office of Vehicle Safety Compliance (NVS-220) 400 Seventh Street, S.W., Room 6111 Washington, DC 20590	13. Type of Report and Period Covered Final Report March - April 2003	14. Sponsoring Agency Code NVS-220																														
15. Supplemental Notes																																
16. Abstract This 55/28 km/h 90° Impact (Moving Deformable Barrier) Compliance Test was conducted on the subject vehicle, a 2003 Honda Accord 4 door in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-214D-06 (except the test was conducted 8 km/h (5 mph) faster than the standard specifies) to determine FMVSS 214 Side Impact Protection compliance. This test was conducted by Transportation Research Center Inc. in East Liberty, Ohio, on March 25, 2003. The impact velocity of the Moving Deformable Barrier (MDB) was 62.0 km/h, and the ambient temperature at the struck (Driver) side of the target vehicle at the time of impact was 21° C. The target vehicle's post-test maximum crush was 393 mm at Level 2. The test or target vehicle's performance is given below: <table border="1"> <thead> <tr> <th></th> <th>Front SID-HIII</th> <th></th> <th>Rear SID-HIII</th> <th></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib Acceleration:</td> <td>71.2</td> <td>g's</td> <td>66.8</td> <td>g's</td> </tr> <tr> <td>Left Lower Rib Acceleration:</td> <td>83.4</td> <td>g's</td> <td>72.9</td> <td>g's</td> </tr> <tr> <td>Lower Spine Acceleration:</td> <td>69.0</td> <td>g's</td> <td>72.2</td> <td>g's</td> </tr> <tr> <td>Thoracic Trauma Index, (TTI):</td> <td>76.2</td> <td>g's</td> <td>72.6</td> <td>g's</td> </tr> <tr> <td>Pelvis Acceleration (PEV):</td> <td>77.3</td> <td>g's</td> <td>60.1</td> <td>g's</td> </tr> </tbody> </table> POSSIBLE SAFETY CONCERN - The doors on the struck side of the vehicle did not separate totally from the body. However, the rear struck side door disengaged from the latched position. The doors on the un-struck side remained shut (see Appendix E).				Front SID-HIII		Rear SID-HIII		Left Upper Rib Acceleration:	71.2	g's	66.8	g's	Left Lower Rib Acceleration:	83.4	g's	72.9	g's	Lower Spine Acceleration:	69.0	g's	72.2	g's	Thoracic Trauma Index, (TTI):	76.2	g's	72.6	g's	Pelvis Acceleration (PEV):	77.3	g's	60.1	g's
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19. Security Classification (of this report) Unclassified	20. Security Classification (of this page) Unclassified	21. Number of Pages 440																														
22. Price																																

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Section 1

Purpose and Test Procedure

This side impact test is part of the FMVSS 214 Side Impact Protection Compliance Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-02-D-11114. The purpose of this test was to evaluate side impact protection in a 2003 Honda Accord 4 door. The test was conducted in accordance with the Office of Vehicle Safety Compliance's Laboratory Test Procedure (LP-214D-06, dated July 2001) (except the test was conducted 8 km/h (5 mph) faster than the standard specifies).

Section 2

Summary of Side Impact Test

A 2003 Honda Accord 4 door was impacted on the driver side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the monorail at a velocity of 62.0 km/h (38.6 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by Transportation Research Center Inc. in East Liberty, Ohio on March 25, 2003. Pre-test and post-test photographs of the test vehicle, the moving deformable barrier (MDB), and the side impact dummies (SID-HIIs) are included in Appendix A.

Two restrained Side Impact Dummies (SID-HIIs) were placed in the driver (Pos. #1) and left rear (Pos. #4) designated seating positions according to the instructions specified in the OVSC Side Impact Laboratory Test Procedure (TP-214D-06, dated July 2001). Both SID-HIIs were certified prior to this test. The side impact test was documented by one real-time camera and 9 high-speed cameras. Camera locations and other pertinent camera information are included in this report.

The SID-HIIs were instrumented with the following accelerometers:

1. Head (HED) triaxial and redundant accelerometers (X, Y, and Z-directions)
2. Neck (NEK) triaxial force and moment load cells (X, Y, and Z-directions)
3. Left Upper Rib (LUR) uniaxial and redundant accelerometer (Y-direction)
4. Left Lower Rib (LLR) uniaxial and redundant accelerometer (Y-direction)
5. Lower Thoracic Spine (T₁₂) uniaxial and redundant accelerometer (Y-direction)
6. Pelvic (PEV) section uniaxial and redundant accelerometer (Y-direction)

A summary of the side impact dummy (SID-HII) configuration and verification test data can be found in Appendix C. A total of 73 channels of data were recorded. Appendix B contains the vehicle, MDB, and dummy response data traces.

The following tables summarize the results of the test:

Injury Criteria	Front SID-HIII	Rear SID-HIII
TII (g)	76.2	72.6
PEV (g)	77.3	60.1

Head Injury Criteria (HIC)

Injury Criteria	Front SID-HIII	Rear SID-HIII
HIC ¹	681	442
t ₁ (ms)	44.6	49.8
t ₂ (ms)	80.6	63.7
Average Acceleration t ₁ - t ₂ (g)	51.3	61.8

HIC is as defined in FMVSS 208. The maximum time interval t₁ to t₂ is 36 ms.

Neck Injury Criteria

Maximum Values	Front SID-HIII	Rear SID-HIII
Neck X-axis Force (N)	2684	329
Neck Y-axis Force (N)	955	241
Neck Z-axis Force (N)	1311	1478
Moment About X-axis (Nm) ²	37	139
Moment About Y-axis (Nm)	24	56
Moment About Z-axis (Nm)	30	21

¹ See Data Acquisition Explanations

² Calculated about the occipital condyle with the following formula: $M_{occ} = M_x + 0.01778F_y$.

Data Acquisition Explanations

The driver's head X-axis acceleration data channel, HEDXG1, recorded intermittent data spikes after 93 milliseconds. This affected the driver's head resultant acceleration and velocity calculations. The driver's Head Injury Criteria (HIC) calculation did not include this time frame.

The left rear passenger's head Y-axis acceleration data channel, HEDYG4, recorded intermittent data spikes after 88 milliseconds. This affected the left rear passenger's head resultant acceleration and velocity calculations. The left rear passenger's HIC was calculated using the left rear passenger's head redundant acceleration data.

The left rear passenger's head Z-axis redundant acceleration data channel, HEDZR4, recorded data spikes at 95 and 128 milliseconds. This affected the left rear passenger's head redundant resultant acceleration and velocity calculations. The left rear passenger's redundant HIC did not include this time frame.

The left side sill at front seat Y-axis acceleration data channel, LFSYG1, recorded questionable data throughout the impact event. This affected the left side sill at front seat velocity and displacement calculations.

The left front door mid-rear Y-axis acceleration data channel, LFMYG1, recorded questionable data throughout the impact event. This affected the left front door mid-rear velocity and displacement calculations.

The left front door upper centerline Y-axis acceleration data channel, LFUYG1, recorded questionable data throughout the impact event. This affected the left front door upper centerline velocity and displacement calculations.

The left rear door mid-rear Y-axis acceleration data channel, LRMYG1, recorded questionable data after 55 milliseconds. This affected the left rear door mid-rear velocity and displacement calculations.

The left lower A-post Y-axis acceleration data channel, LLAYG1, recorded questionable data after 20 milliseconds. This affected the left lower A-post velocity calculation.

The left lower B-post Y-axis acceleration data channel, LLBYG1, recorded questionable data after 15 milliseconds. This affected the left lower B-post velocity calculation.

The left middle B-post Y-axis acceleration data channel, LMBYG1, recorded questionable data after 25 milliseconds. This affected the left middle B-post velocity calculation.

The left rear seat track Y-axis acceleration data channel, LRTYG1, recorded questionable data after 10 milliseconds. This affected the left rear seat track velocity calculation.

Section 3

Summary of Test Results

Data Sheet 1

General Test Vehicle Parameter Data

Test Vehicle Information:

Vehicle Year/Make/Model: 2003 Honda Accord
Vehicle Body Style/Color: 4 door/Taffeta White VIN: 1HGCM55183A057109
Vehicle NHTSA No.: C35308 Build Date: 02/03
Engine Data: 4 Cylinders; CID; 2.4 Liters; cc
Placement: - Longitudinal; or X Lateral; or - Horizontal
Transmission: 5 Speed; X Manual; - Automatic; - Overdrive
Final Drive: - RWD; X FWD; - Four-Wheel Drive
Odometer Reading: 30 km
Options: - A/C; X Power steering; X Pwr. brakes; X Power windows

Data From Vehicle's Tire Placard:

Tire Pressure (at capacity)* 220 kPa Front; 210 kPa Rear
Recommended Tire Size: P195/65R15
Tires on Test Vehicle: P195/65R15 Manufacturer: Bridgestone, Turanza

Vehicle Capacity Data:

Number of Occupants: 2 Front; 3 Rear; 3rd seat; 5 Total
Type of Front Seats: X Bucket; - Bench; - Split bench
Type of Front Seat Back: - Fixed; X Adjustable with X Lever or - Knob
Vehicle Max. Capacity Loading = 385 kg (A)
No. of Occupants x 68.04 kg. = 340 kg (B)
Vehicle Cargo Capacity (A-B) = 45 kg

Test Vehicle Delivered Weight With Maximum Fluids:

Left Front	=	<u>411.0</u> kg	Left Rear	=	<u>274.0</u> kg
Right Front	=	<u>414.5</u> kg	Right Rear	=	<u>274.0</u> kg
Total Front	=	<u>825.5</u> kg	Total Rear	=	<u>548.0</u> kg
Front % of Total Weight	=	<u>60.1</u> %	Rear % of Total Weight	=	<u>39.9</u> %
Total Weight	=	<u>1373.5</u> kg			

* Tire pressure used in test.

Data Sheet 1 (continued)

General Test Vehicle Parameter Data

Calculation Of Vehicle's Target Test Weight:

Total Test Vehicle Delivered Weight With Max. Fluids = 1373.5 kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle = 45 kg (B)
Weight of Instrumented Side Impact Dummies (2 X 84.0 kg) = 168 kg (C)
Test Vehicle Target Weight: = 1586.5 kg (A+B+C)

Fully Loaded Test Vehicle (UDW + 2 SID-HIIs + Cargo):

Left Front	=	<u>467.5</u> kg	Left Rear	=	<u>380.5</u> kg
Right Front	=	<u>415.0</u> kg	Right Rear	=	<u>339.0</u> kg
Total Front	=	<u>882.5</u> kg	Total Rear	=	<u>719.5</u> kg
Front % of Total Weight	=	<u>55.1</u> %	Rear % of Total Weight	=	<u>44.9</u> %
Total Weight	=	<u>1602.0</u> kg			

As Tested Weight of Test Vehicle (2 SID-HIIs - Cargo - Equipment & Instrumentation):

Left Front	=	<u>417.8</u> kg	Left Rear	=	<u>345.8</u> kg
Right Front	=	<u>456.4</u> kg	Right Rear	=	<u>360.4</u> kg
Total Front	=	<u>874.2</u> kg	Total Rear	=	<u>706.2</u> kg
Front % of Total Weight	=	<u>55.3</u> %	Rear % of Total Weight	=	<u>44.7</u> %
Total Weight	=	<u>1580.4</u> kg			

Test Vehicle Attitude (all dimensions in millimeters):

As Delivered	Fully Loaded	Ready For Test
Right Front <u>704</u>	Right Front <u>687</u>	Right Front <u>694</u>
Left Front <u>712</u>	Left Front <u>683</u>	Left Front <u>696</u>
Right Rear <u>692</u>	Right Rear <u>659</u>	Right Rear <u>660</u>
Left Rear <u>700</u>	Left Rear <u>653</u>	Left Rear <u>657</u>

Test Vehicle Wheelbase: 2740 mm

C.G. = 1224 mm rearward of front wheel centerline

Total Vehicle Length:

Right Side = 4635 mm
Left Side = 4645 mm
Centerline = 4825 mm

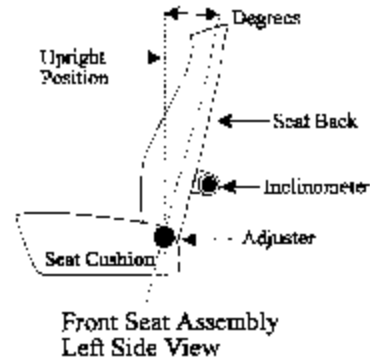
Data Sheet 1 (continued)

General Test Vehicle Parameter Data

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Nominal Design Riding Position for adjustable driver and passenger seat backs. Please describe how to position the inclinometer to measure the seat back angle. Include description of the location of the adjustment latch detent, if applicable.



Front Seat Cushion Placement: Mid, 12th notch rearward of front notch

Total Length of Fore/Aft Adjustment Travel: 240 mm

Total Number of Adjustment Positions or Detents: 25

Front Seat Back Adjustment Position: The seat back was adjusted to the 4th notch rearward of the forwardmost position

Seat Back Torso Angle: 14.2 degrees

Second Position Seat Placement: N/A, not adjustable

Total Length Of Fore/Aft Adjustment Travel: None

Seat Back Adjustment Position: N/A, not adjustable

Adjustable Steering Column Position: Mid between highest and lowest angles

Window Positions:

Right Front: Open

Right Rear: Open

Left Front: Closed

Left Rear: Closed

Note: Windows will be in closed position on struck side of test vehicle and in open position on opposite side.

Amount of Stoddard Solvent In Fuel Tank:

64.7 liters (fuel tank usable capacity)

59.8 liters used in test (92% - 94% of fuel tank usable capacity)

Location of Impact Point On Test Vehicle Side To Be Impacted:

Wheelbase = 2740 millimeters

Intended impact point is 430 millimeters rearward of front axle centerline
(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 422 millimeters rearward of front axle centerline

Data Sheet 2

Test Vehicle Summary of Results

Vehicle Year/Make/Model: 2003/Honda/Accord

Body Style: 4-door

VIN: 1HGCM55183A057109

NHTSA No.: C35308

Build Date: 02/03

Test Date: 03/25/03

Vehicle Overall Length = 4825 mm

Overall Width = 1814 mm

Vehicle Test Weight (Pre-Test):

Left Front = 417.8 kg Left Rear = 345.8 kg

Right Front = 456.4 kg Right Rear = 360.4 kg

Total Front = 874.2 kg Total Rear = 706.2 kg

Total Weight = 1580.4 kg

Wheelbase = 2740 mm

Longitudinal C.G. From Center Of Front Axle = 1224 mm

Impact Angle With Respect To Impactor = 90 degrees

Impact Point:

Actual Impact Point is 5 mm left of nominal impact ref. line (Lateral)

Actual Impact Point is 9 mm up from nominal impact point (Vertical)

Maximum Exterior Static Crush:

1. Level 1 (275 mm above ground) = 164 mm

2. Level 2 (516 mm above ground) = 393 mm

3. Level 3 (621 mm above ground) = 353 mm

4. Level 4 (892 mm above ground) = 319 mm

5. Level 5 (1380 mm above ground) = 90 mm

Maximum Post-Test Intrusion = 393 mm

Occupants:

Front Passenger

Rear Passenger

Dummy Identification 66

65

Restraints Used Seat belt

Seat belt

Instrumentation:

Number of Vehicle Data Channels: = 26

Number of Cameras: Onboard = 3 Offboard = 7 Total = 10

Data Sheet 3

Moving Deformable Barrier(MDB) Summary

MDB Face Manufacturer And Serial Number:

Plascore, 005A0203-2, 046B0103

Position Of Impactor (MDB) On Monorail:

Crabbed 27° to the left

MDB Specifications:

Overall Width of Framework Carriage = 1251 mm

Overall Length of MDB (Incl. honeycomb impact face) = 4014 mm

Wheelbase of Framework Carriage = 2591 mm

Track of Framework Carriage (Front & Rear) = 1881 mm

C.G. Location Rearward of Front Axle = 1116 mm

MDB Weight:

Left Front = 380.4 kg Left Rear = 302.8 kg

Right Front = 395.2 kg Right Rear = 284.2 kg

Total Front = 775.6 kg Total Rear = 587.0 kg

Total MDB Weight = 1362.6 kg

Impact Angle (MDB C/L to Target Vehicle C/L) = 90 degrees

Impact Speed = 62.0 km/h

Maximum Static Crush of Honeycomb Impact Face:

1. Row A at Center of Bumper Level = 170 millimeters

2. Row B at Top of Bumper Level = 65 millimeters

3. Row C at Mid Level = 86 millimeters

4. Row D at Top of Stack Level = 137 millimeters

Instrumentation:

Number of MDB Data Channels = 5

Data Sheet 4

Post-Test Observations

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Visible Dummy Contact Points:

Left Front SID-HIII

Left Rear SID-HIII

Head: Head restraint, window sill

C-pillar

Upper Torso: Door panel

Door panel

Lower Torso: None

None

Left Knee: Door panel

Door panel

Right Knee: None

None

Door Opening:

Left Side

Right Side

Front: Latched & jammed shut

Easy

Rear: Jammed shut during impact,

Easy

disengaged from the latched position

MDB Distance From Target Impact Point:

Vertical: 9 mm up from target

Horizontal: 5 mm left from target

Arm Rest Locations:

Front: 242 mm below the bottom of the window

Rear: 275 mm below the bottom of the window

Seat Movement:

Front: None

Rear: N/A

Glazing Damage:

Windshield: Entire windshield cracked

Window: Shattered

Pillar Separation: No

Sill Separation: No

Other Notable Impact Effects: The left (struck) side rear door disengaged from the latched during impact. The distance between the striker and latching mechanism measured approximately 75 mm. The door remained attached to the body of the vehicle.

Section 4

Occupant and Vehicle Information

Data Sheet 5

SID-HIII Instrumentation Data

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

TEST NUMBER: 030325-1

DRIVER DUMMY SERIAL NUMBER: 066

POSITIVE
DIRECTION

NEGATIVE
DIRECTION

HEAD ACCELERATION

LONGITUDINAL ¹	18.0 g	@ 114.2 ms	30.7 g	@ 77.8 ms
LATERAL	61.8 g	@ 77.2 ms	10.4 g	@ 32.5 ms
VERTICAL	60.3 g	@ 51.0 ms	1.8 g	@ 270.8 ms
RESULTANT ¹	68.9 g	@ 77.3 ms		
HIC	681 from 44.6 to 80.6 ms			

HEAD REDUNDANT ACCELERATION

LONGITUDINAL	7.7 g	@ 188.2 ms	30.5 g	@ 77.8 ms
LATERAL	61.1 g	@ 77.2 ms	10.4 g	@ 32.5 ms
VERTICAL	62.5 g	@ 51.0 ms	1.8 g	@ 270.6 ms
RESULTANT	72.0 g	@ 50.8 ms		
HIC	722 from 44.6 to 80.6 ms			

NECK FORCE

X-AXIS SHEAR	2504.1 N	@ 74.2 ms	2683.9 N	@ 43.8 ms
Y-AXIS SHEAR	305.1 N	@ 84.4 ms	954.5 N	@ 50.2 ms
Z-AXIS AXIAL	1311.1 N	@ 72.5 ms	1296.4 N	@ 213.0 ms

NECK MOMENT

ABOUT X-AXIS	2.2 N-m	@ 183.3 ms	23.1 N-m	@ 66.1 ms
ABOUT Y-AXIS	24.0 N-m	@ 46.9 ms	11.6 N-m	@ 32.5 ms
ABOUT Z-AXIS	30.2 N-m	@ 54.6 ms	0.8 N-m	@ 267.4 ms
OCIPITAL COND	3.0 N-m	@ 273.1 ms	37.0 N-m	@ 50.7 ms

LEFT UPPER RIB ACCELERATION

LATERAL (P)	71.2 g	@ 36.3 ms	26.1 g	@ 69.4 ms
LATERAL (R)	71.3 g	@ 36.3 ms	27.4 g	@ 69.4 ms

LEFT LOWER RIB ACCELERATION

LATERAL (P)	83.4 g	@ 35.6 ms	16.8 g	@ 68.8 ms
LATERAL (R)	83.6 g	@ 35.6 ms	17.6 g	@ 68.8 ms
TTI d (P)	76.2			
TTI d (R)	76.0			

LOWER SPINE ACCELERATION

LATERAL (P)	69.0 g	@ 33.7 ms	24.1 g	@ 63.8 ms
LATERAL (R)	68.5 g	@ 34.4 ms	24.2 g	@ 63.8 ms

PELVIS ACCELERATION

LATERAL (P)	77.3 g	@ 25.0 ms	32.1 g	@ 49.4 ms
LATERAL (R)	77.2 g	@ 25.0 ms	32.1 g	@ 49.4 ms

POSITIVE DIRECTION

LONGITUDINAL: FORWARD
LATERAL: RIGHTWARD
VERTICAL: DOWNWARD

NEGATIVE DIRECTION

LONGITUDINAL: REARWARD
LATERAL: LEFTWARD
VERTICAL: UPWARD

¹ See DATA ACQUISITION EXPLANATION

Data Sheet 5 (Continued)

SID-HII Instrumentation Data

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

TEST NUMBER: 030325-1

PASSENGER DUMMY SERIAL NUMBER: 065

POSITIVE
DIRECTION

NEGATIVE
DIRECTION

HEAD ACCELERATION

LONGITUDINAL	9.2 g	@ 169.1 ms	19.6 g	@ 70.0 ms
LATERAL ¹	793.2 g	@ 149.4 ms	103.1 g	@ 94.7 ms
VERTICAL	19.4 g	@ 51.6 ms	40.5 g	@ 61.8 ms
RESULTANT ¹	793.3 g	@ 149.4 ms		
HIC	5869 from 149.2 to 149.7 ms			

HEAD REDUNDANT ACCELERATION

LONGITUDINAL	9.3 g	@ 165.3 ms	19.1 g	@ 70.4 ms
LATERAL	84.3 g	@ 54.7 ms	6.4 g	@ 175.8 ms
VERTICAL ¹	19.4 g	@ 51.6 ms	40.7 g	@ 62.4 ms
RESULTANT ¹	84.8 g	@ 54.7 ms		
HIC	442 from 49.8 to 63.7 ms			

NECK FORCE

X-AXIS SHEAR	159.9 N	@ 61.5 ms	328.8 N	@ 69.9 ms
Y-AXIS SHEAR	53.0 N	@ 120.8 ms	241.3 N	@ 61.4 ms
Z-AXIS AXIAL	828.2 N	@ 47.6 ms	1477.8 N	@ 62.2 ms

NECK MOMENT

ABOUT X-AXIS	7.2 N-m	@ 129.2 ms	134.7 N-m	@ 61.4 ms
ABOUT Y-AXIS	22.5 N-m	@ 104.2 ms	56.4 N-m	@ 66.2 ms
ABOUT Z-AXIS	21.1 N-m	@ 86.6 ms	9.6 N-m	@ 58.9 ms
OCCIPITAL COND	7.8 N-m	@ 129.3 ms	139.0 N-m	@ 61.4 ms

LEFT UPPER RIB ACCELERATION

LATERAL (P)	66.8 g	@ 44.4 ms	4.3 g	@ 132.5 ms
LATERAL (R)	63.7 g	@ 45.0 ms	4.3 g	@ 132.5 ms

LEFT LOWER RIB ACCELERATION

LATERAL (P)	72.9 g	@ 44.4 ms	6.8 g	@ 84.4 ms
LATERAL (R)	70.8 g	@ 44.4 ms	8.6 g	@ 68.1 ms
TTI d (P)	72.6			
TTI d (R)	70.7			

LOWER SPINE ACCELERATION

LATERAL (P)	72.2 g	@ 51.3 ms	21.7 g	@ 66.3 ms
LATERAL (R)	70.7 g	@ 51.3 ms	21.7 g	@ 66.3 ms

PELVIS ACCELERATION

LATERAL (P)	60.1 g	@ 37.5 ms	9.0 g	@ 74.4 ms
LATERAL (R)	60.2 g	@ 37.5 ms	9.0 g	@ 74.4 ms

POSITIVE DIRECTION

LONGITUDINAL: FORWARD
LATERAL: RIGHTWARD
VERTICAL: DOWNWARD

NEGATIVE DIRECTION

LONGITUDINAL: REARWARD
LATERAL: LEFTWARD
VERTICAL: UPWARD

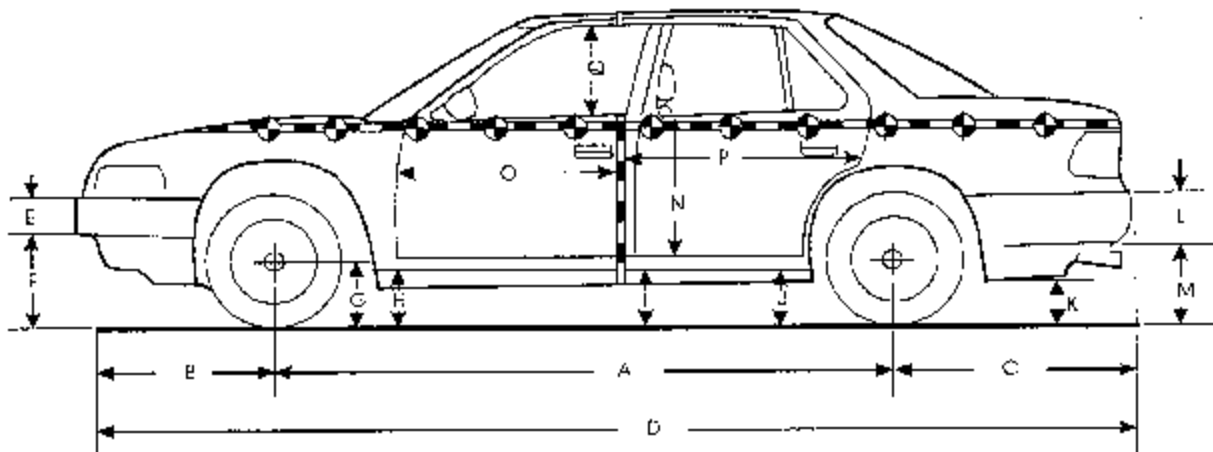
¹ See DATA ACQUISITION EXPLANATION

Data Sheet 6

Vehicle Pre-Test And Post-Test Measurements

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



Left Side View

Note: All dimensions are in millimeters with tolerance of ± 3 mm

	Pre-Test (as delivered)	Pre-Test (as tested)	Post-Test (as tested)	Change
A	2740	2740	2703	37
B	1000	1000	1000	0
C	1090	1090	1090	0
D	4825	4825	4825	0
E	135	135	135	0
F	432	434	436	-2
G	295	292	295	-3
H	280	273	296	-23
I	295	273	405	-132
J1	192	168	152	16
J2	300	274	355	-81
K	284	243	240	3
L	250	250	250	0
M	355	316	302	14
N	710	710	667	43
O	41	41	88	-47
P	2306	2306	2108	198
Q	440	440	421	19
R	4635	4635	4635	0
S	4645	4645	4544	101
T	1350	1350	1557	-207

D = Length at centerline
T = Width at B-pillar

F&I = Bumper Thickness
J1 = To Pinch Weld

R = Right Side Length
J2 = To Sill

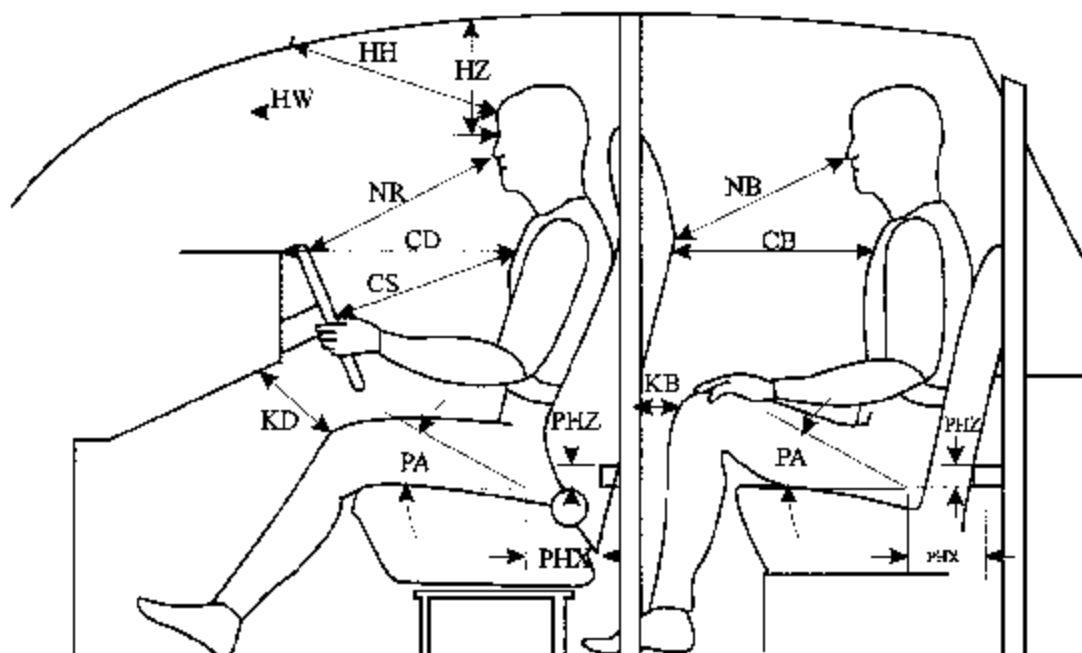
S = Left Side Length

Data Sheet 7

SID-HIII Longitudinal Clearance Dimensions

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



Left Side View

Note: All measurements are in millimeters with tolerance of ± 3 mm

Measurement	Driver SID-HIII # 66	Left Rear Pass. SID-HIII # 65
HH	398	N/A
HW	601	N/A
HZ	170	190
NR/NB	458	668
CD/CB	523	584
CS	353	N/A
KDL(KDA°)/KBL(KBA°)	182/(65.7°)	255/(76.4°)
KDR(KDA°)/KBR(KBA°)	140/(56.9°)	255/(69.4°)
PA°	23.1°	23.2°
PHX	200	305
PHZ	147	330

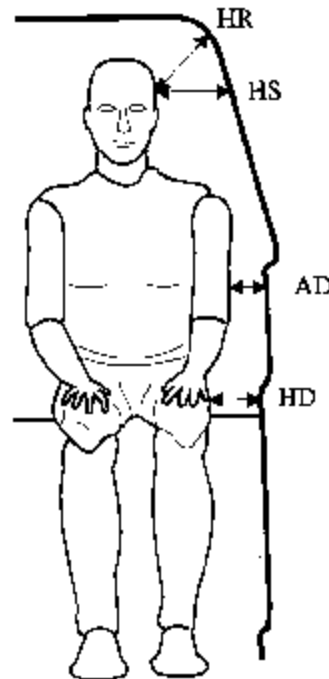
Note: 2-door vehicle shown. Rear dummy PHX and PHZ measurements for 4-door vehicle would use the C-post striker as a reference point.

Data Sheet 8

SID-HIII Lateral Clearance Dimensions

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



Note: All measurements are in millimeters with tolerance of ± 3 mm

Measurement	Driver SID-HIII # 66	Left Rear Pass. SID-HIII # 65
HR	180	205
HS	310	340
AD*	Lower: 121 Upper: 110	Lower: 105 Upper: 120
HD	146	158

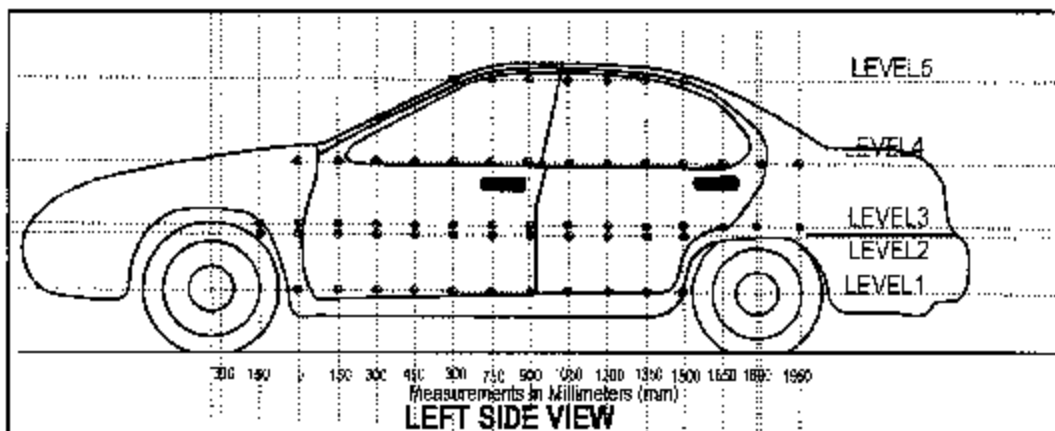
- * Lower measurement is taken laterally at center of the lower rib accelerometer height from the SID-HIII arm segment to the closest part of the vehicle side.
Upper measurement is taken laterally at center of the upper rib accelerometer height from the SID-HIII arm segment to the closest part of the vehicle side.

Data Sheet 9

Vehicle Side Measurements

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



- Level 5 - Window Top
- Level 4 - Window Sill
- Level 3 - Mid-Door
- Level 2 - Occupant H-Point
- Level 1 - Axle Centerline Height or Sill Top Height

Measurements Are Taken When The Vehicle Is In The "As Tested" Configuration.

Measurements along the vertical 750 mm line shown above:

Level 5 @ Window Top	=	<u>1380</u>	mm
Level 4 @ Window Sill	=	<u>892</u>	mm
Level 3 @ Mid Door	=	<u>621</u>	mm
Level 2 @ Occupant H-Point	=	<u>516</u>	mm
Level 1 @ Axle Centerline Height (or Sill Top Height)	=	<u>275</u>	mm

Data Sheet 10

Vehicle Exterior Crush Profiles - All Levels

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

		(mm) From Impact Point														
		-1200	-1050	-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	
Level 1 Side Sill	Height	275	Pre	---	---	---	---	---	---	---	---	---	---	---	---	---
	Post		---	---	---	---	---	---	---	---	---	---	---	---	---	
	Crush		---	---	---	---	---	---	---	---	---	---	---	---	---	
Level 2 H-Point	Height	516	Pre	---	---	639	---	---	---	---	---	---	---	---	---	---
	Post		---	---	655	630	---	---	---	---	---	---	---	---	---	
	Crush		---	---	16	---	---	---	---	---	---	---	---	---	---	
Level 3 Mid-Door	Height	621	Pre	---	---	660	617	---	---	---	---	---	---	---	---	---
	Post		---	---	673	635	---	---	---	---	---	---	---	---	---	
	Crush		---	---	13	18	---	---	---	---	---	---	---	---	---	
Level 4 Window Sill	Height	892	Pre	---	---	802	774	750	727	710	695	681	672	665	660	655
	Post		---	---	810	788	767	745	730	715	720	787	840	889	899	
	Crush		---	---	8	14	17	18	20	20	39	115	175	229	244	
Level 5 Window Top	Height	1380	Pre	---	---	---	---	---	---	---	---	---	---	---	---	---
	Post		---	---	---	---	---	---	---	---	---	---	---	---	---	
	Crush		---	---	---	---	---	---	---	---	---	---	---	---	---	

Data Sheet 10 (Continued)

Vehicle Exterior Crush Profiles - All Levels

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Location	Height	(mm) From Impact Point														
		900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700		
Level 1 Side Sill	275	Pre	636	636	640	642	645	645	---	---	---	---	---	---		
		Post	793	800	795	755	729	703	---	---	---	---	---	---		
		Crush	157	164	155	138	84	58	---	---	---	---	---	---		
Level 2 H-Point	516	Pre	598	598	599	602	603	602	605	---	---	---	---	624		
		Post	966	974	992	980	953	858	703	---	---	---	610	633		
		Crush	368	376	393	378	350	320	98	---	---	---	---	9		
Level 3 Mid-Door	621	Pre	600	597	597	597	597	600	600	---	---	---	608	627		
		Post	910	923	925	940	950	904	760	---	---	---	616	632		
		Crush	310	326	328	343	353	304	160	---	---	---	8	5		
Level 4 Window Sill	892	Pre	650	645	645	637	637	635	622	622	645	651	662	674		
		Post	895	910	914	935	947	928	812	661	581	678	669	672		
		Crush	245	265	269	298	310	319	190	39	-64	27	7	-2		
Level 5 Window Top	1380	Pre	925	920	915	909	906	912	915	925	---	---	---	---		
		Post	1001	1010	1005	993	990	977	934	937	---	---	---	---		
		Crush	76	90	90	84	84	65	51	12	---	---	---	---		

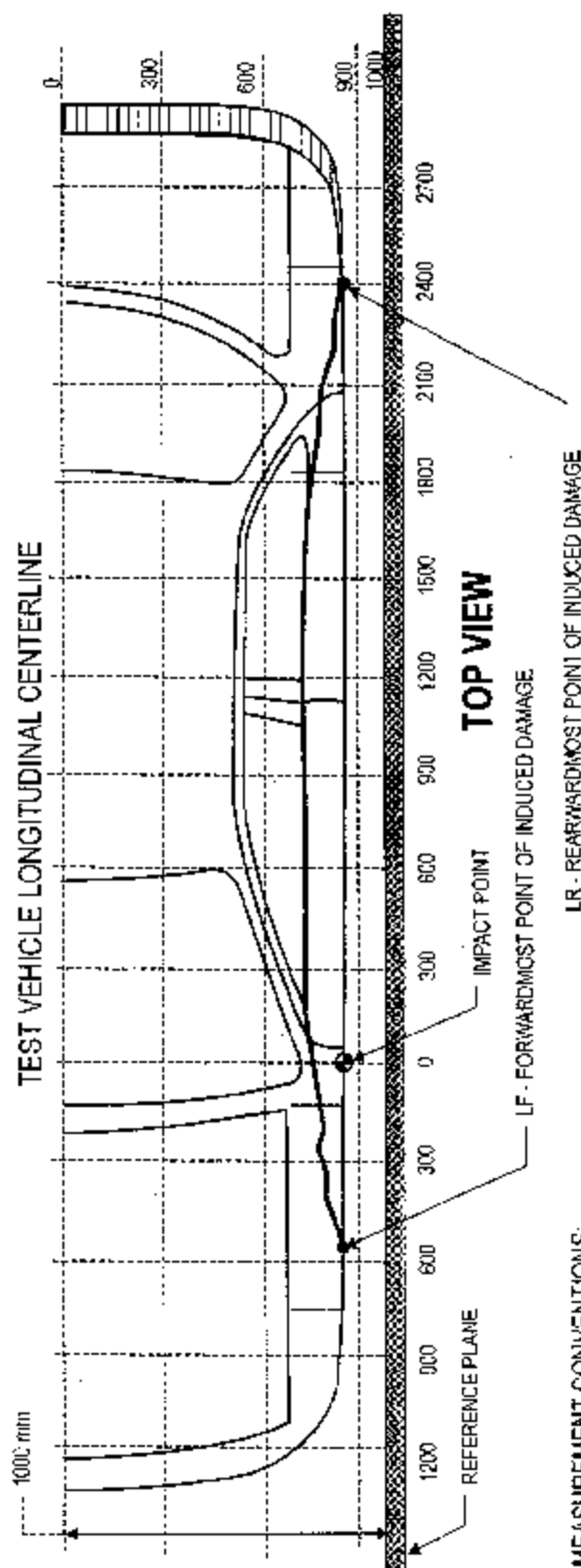
Data Sheet 11

Vehicle Damage Profile Distances

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

NOTE: All measurements are in millimeters (mm) and should be accurate to plus or minus 3mm.



MEASUREMENT CONVENTIONS:

Forward of the impact point (towards front of vehicle) is considered negative (-)

Rearward of the impact point (towards rear end of vehicle) is considered positive (+)

DPD Measurements	Post-Test (mm)	Pre-Test (mm)	Static Crush (mm)
6: LF - 0 mm (Level 4)	720	681	39
5: 450 mm (Level 4)	889	660	229
4: 900 mm (Level 4)	895	650	245
3: 1350 mm (Level 4)	935	637	298
2: 1800 mm (Level 4)	928	635	293
1: LR = 2100 mm (Level 4)	661	622	39

Full length of induced damage was 0 to 2100 mm.

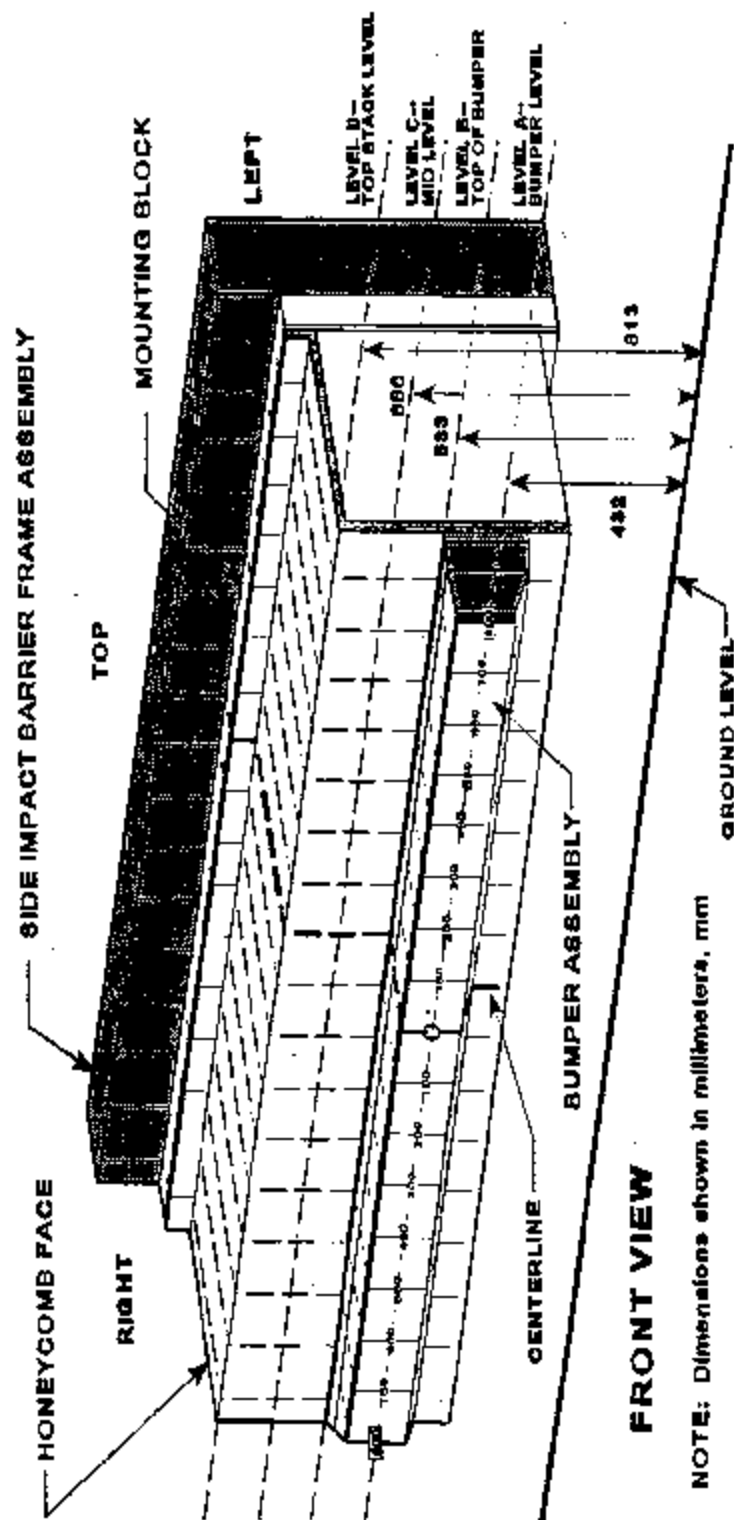
Data Sheet 12

Exterior Static Crush For Impactor Face

(Grid as looking at MDB from front)

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

		Distance Right of Center (mm)									Distance Left of Center (mm)								
Location	Height At CL	800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800	
Top Stack Level - Level D	813	-15.4	4.6	8.0	8.0	4.5	-2.8	-13.2	-5.1	-6.5	-5.5	-6.9	-7.1	-7.4	-18.1	-57.0	-96.4	-136.7	
Mid Level Level C	686	-19.6	2.1	-0.4	-2.0	-3.7	-9.6	-21.3	-13.8	-8.5	-9.4	-6.1	-6.3	-7.5	-10.0	-20.7	-43.2	-85.9	
Top Bumper Level - Level B	533	-50.4	-30.9	-14.7	-9.3	-9.9	-9.7	-12.7	-11.6	-12.6	-11.2	-10.6	-10.6	-11.7	-12.7	-14.5	-29.4	-65.2	
Mid Bumper Level - Level A	432	-169.7	-148.0	-120.2	-98.4	-85.9	-83.7	-77.3	-76.5	-76.4	-76.6	-77.1	-78.0	-78.9	-81.1	-87.7	-97.4	-103.5	

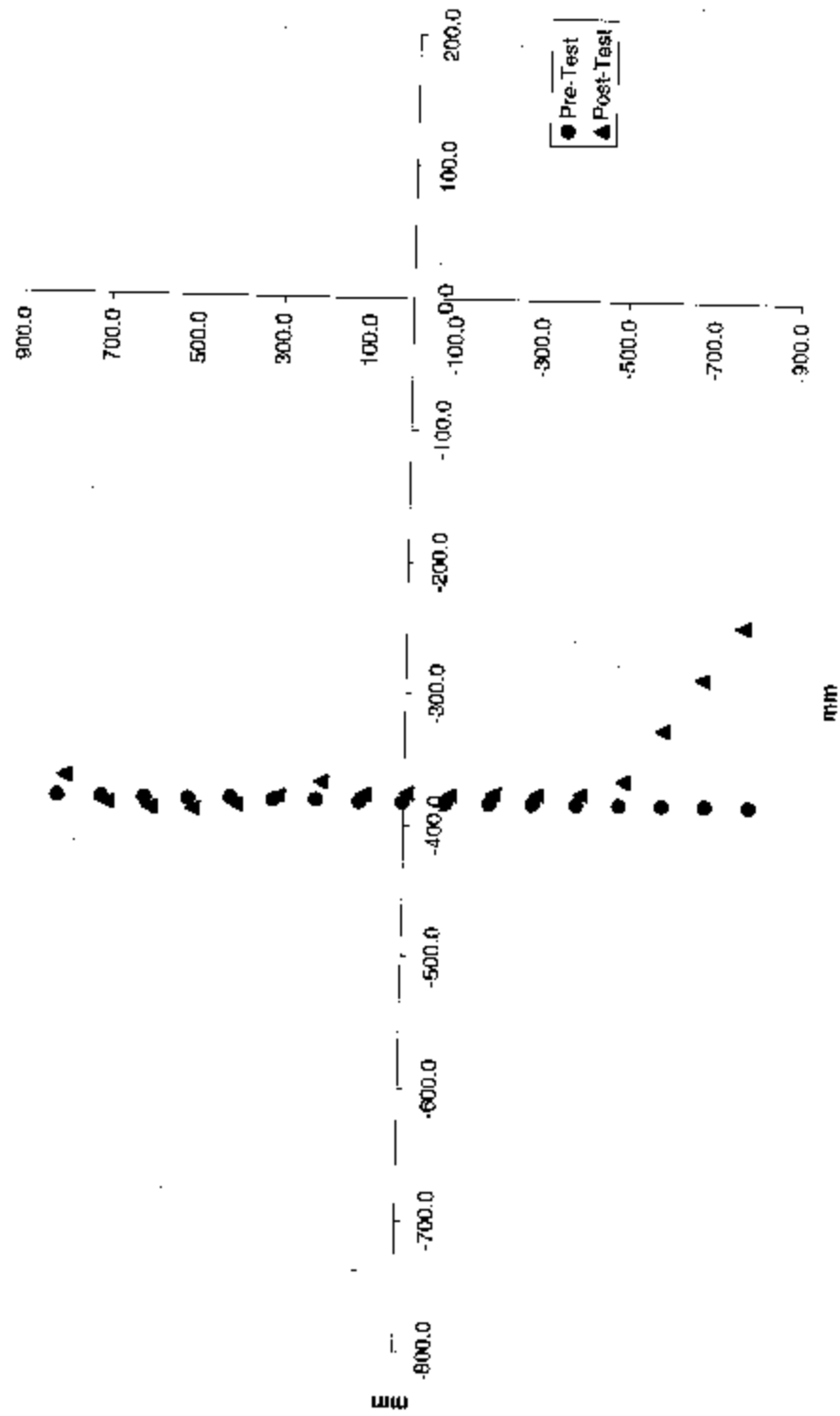
All measurements are in millimeters and have a tolerance of ± 3 mm.

Data Sheet 12 (Continued)
Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Level D - Deformable Barrier Face Profile 1-17



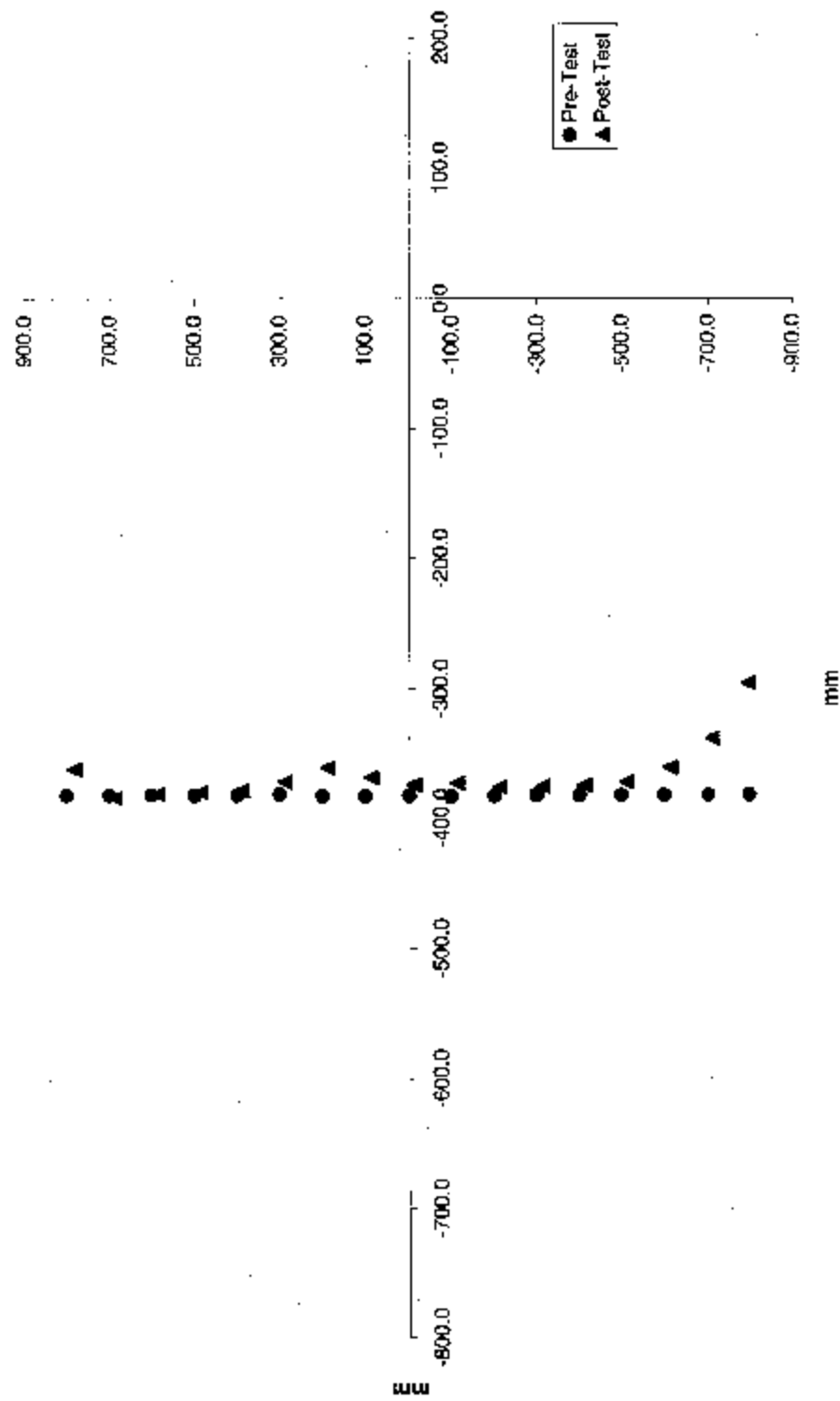
Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Level C - Deformable Barrier Face Profile 18-34



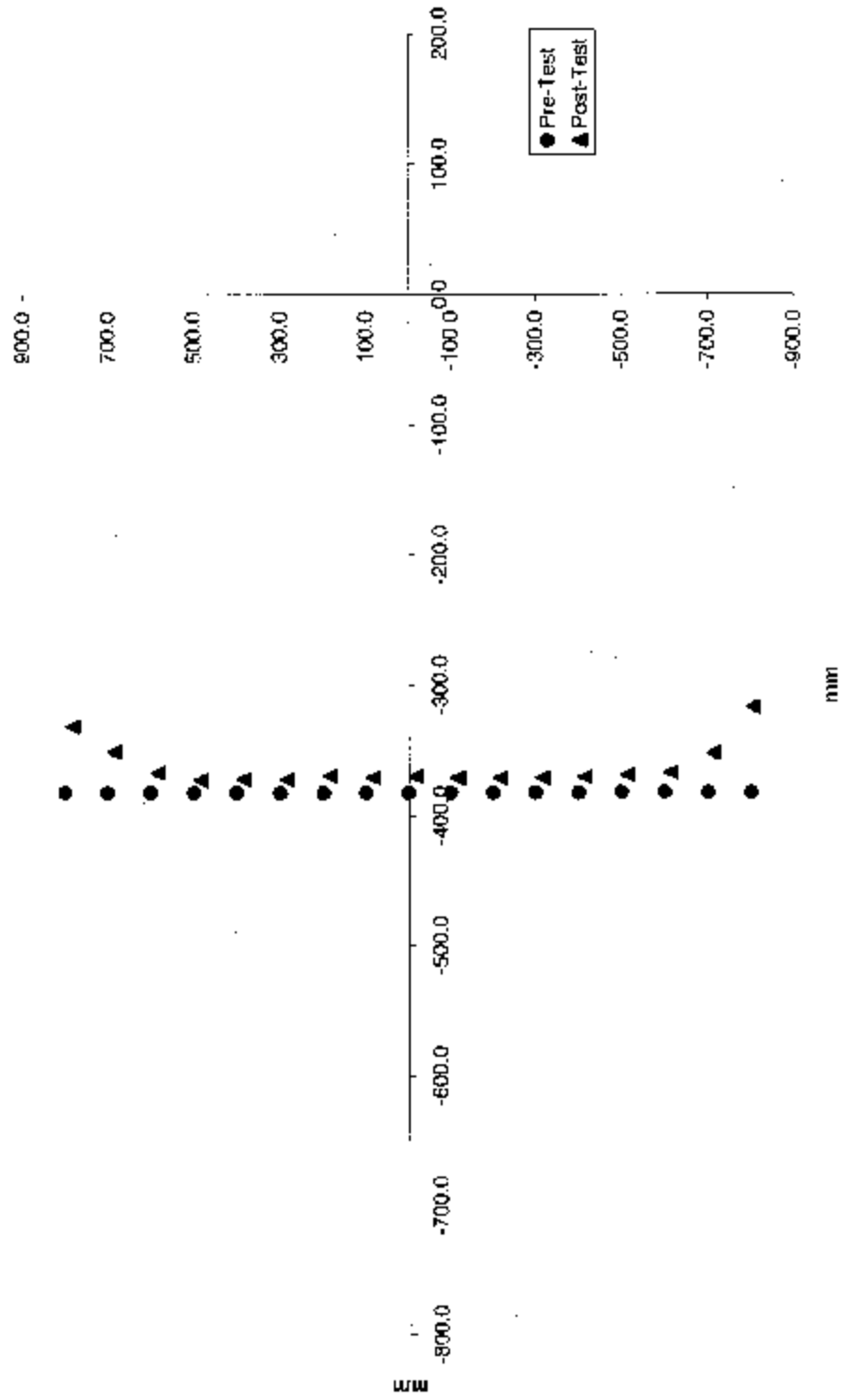
Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Level B - Deformable Barrier Face Profile 35-51



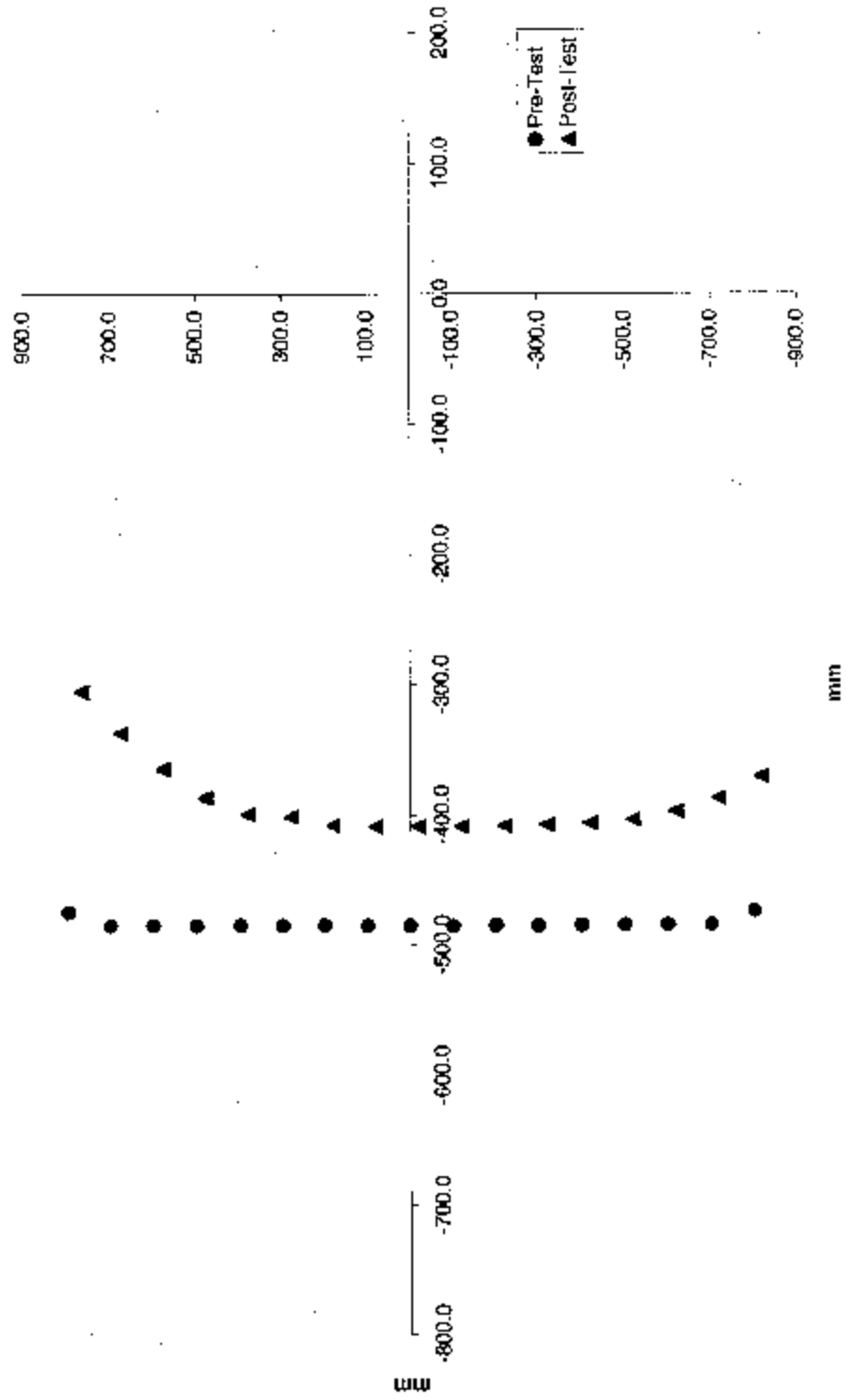
Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Level A - Deformable Barrier Face Profile 52-68



Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Deformable Barrier Face Profile

Level D - Top Stack

Index	Pre-Test		
	Xmm	Ymm	Zmm
1	-381	801	-42
2	-382	701	-42
3	-382	600	-43
4	-382	500	-43
5	-381	400	-43
6	-382	301	-43
7	-381	200	-43
8	-382	100	-44
9	-382	0	-43
10	-382	-100	-44
11	-382	-200	-44
12	-382	-300	-44
13	-382	-400	-44
14	-382	-501	-44
15	-382	-600	-45
16	-383	-700	-44
17	-383	-801	-45

Post-Test

Index	Xmm	Ymm	Zmm
1	-366	785	-72
2	-386	690	-71
3	-390	589	-71
4	-390	489	-69
5	-386	389	-67
6	-379	290	-65
7	-368	190	-63
8	-377	91	-63
9	-376	-9	-61
10	-377	-110	-58
11	-375	-209	-56
12	-375	-309	-53
13	-375	-409	-51
14	-364	-509	-50
15	-325	-599	-62
16	-286	-689	-66
17	-246	-781	-67

Difference

Index	Xmm	Ymm	Zmm
1	-15	16	30
2	5	11	29
3	8	11	27
4	8	11	26
5	5	11	24
6	-3	11	22
7	-13	10	20
8	-5	9	20
9	-6	9	17
10	-5	10	14
11	-7	9	12
12	-7	9	9
13	-7	9	7
14	-18	8	6
15	-57	-1	17
16	-96	-11	22
17	-137	-19	21

Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NEHTSA No.: C35308

Deformable Barrier Face Profile Cont'd.

Level C - Mid Level

Pre-Test

Index	Xmm	Ymm	Zmm
18	-381	800	-172
19	-381	701	-172
20	-381	601	-172
21	-382	500	-172
22	-382	401	-173
23	-381	300	-172
24	-382	200	-173
25	-382	100	-173
26	-382	0	-173
27	-382	-100	-173
28	-382	-200	-173
29	-382	-299	-173
30	-382	-400	-174
31	-382	-500	-173
32	-382	-600	-173
33	-382	-700	-173
34	-382	-800	-173

Post-Test

Index	Xmm	Ymm	Zmm
18	-362	782	-201
19	-384	687	-200
20	-381	587	-199
21	-380	487	-197
22	-378	387	-196
23	-372	287	-194
24	-361	187	-192
25	-369	87	-189
26	-374	-13	-188
27	-373	-113	-186
28	-376	-213	-184
29	-376	-312	-182
30	-375	-413	-180
31	-372	-512	-177
32	-362	-612	-175
33	-339	-709	-176
34	-296	-799	-181

Difference

Index	Xmm	Ymm	Zmm
18	-20	19	30
19	2	13	29
20	0	13	26
21	-2	13	25
22	-4	13	23
23	-10	13	21
24	-21	13	19
25	-14	13	16
26	-8	12	15
27	-9	13	13
28	-6	13	11
29	-6	13	9
30	-7	13	6
31	-10	12	4
32	-21	12	2
33	-43	9	2
34	-86	-1	7

Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NIHTSA No.: C35308

Deformable Barrier Face Profile Cont'd.

Level B - Top of Bumper

Pre-Test

Index	Xmm	Ymm	Zmm
35	-381	800	-298
36	-382	701	-297
37	-382	600	-298
38	-382	500	-298
39	-382	400	-298
40	-382	300	-298
41	-382	200	-298
42	-382	100	-298
43	-382	0	-298
44	-382	-100	-299
45	-382	-200	-299
46	-382	-300	-299
47	-382	-400	-299
48	-382	-500	-299
49	-382	-600	-299
50	-382	-700	-300
51	-382	-801	-300

Post-Test

Index	Xmm	Ymm	Zmm
35	-331	780	-306
36	-351	684	-315
37	-367	585	-321
38	-372	485	-322
39	-372	385	-321
40	-372	284	-319
41	-369	184	-317
42	-371	84	-315
43	-370	-16	-313
44	-371	-116	-311
45	-371	-215	-309
46	-371	-315	-307
47	-371	-415	-305
48	-369	-515	-302
49	-368	-616	-300
50	-353	-713	-297
51	-317	-806	-301

Difference

Index	Xmm	Ymm	Zmm
35	-50	20	8
36	-31	17	18
37	-15	16	23
38	-9	16	24
39	-10	16	23
40	-10	16	21
41	-13	16	19
42	-12	16	16
43	-13	16	14
44	-11	16	12
45	-11	15	10
46	-11	15	8
47	-12	15	6
48	-13	15	3
49	-14	15	1
50	-29	13	-3
51	-65	5	1

Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

Deformable Barrier Face Profile Cont'd.

Level A - Mid Bumper

Pre-Test

Index	Xmm	Ymm	Zmm
52	-474	798	-425
53	-485	700	-426
54	-485	599	-425
55	-485	499	-425
56	-485	399	-425
57	-485	300	-425
58	-485	201	-425
59	-485	99	-426
60	-485	0	-426
61	-485	-100	-426
62	-485	-200	-426
63	-485	-300	-426
64	-485	-400	-427
65	-485	-500	-427
66	-485	-600	-427
67	-485	-701	-427
68	-475	-799	-428

Post-Test

Index	Xmm	Ymm	Zmm
52	-305	765	-445
53	-337	673	-461
54	-364	577	-472
55	-386	479	-479
56	-399	380	-482
57	-401	280	-480
58	-408	181	-480
59	-409	80	-477
60	-409	-19	-475
61	-409	-120	-472
62	-408	-220	-470
63	-407	-319	-467
64	-406	-419	-465
65	-404	-520	-462
66	-397	-619	-457
67	-388	-719	-451
68	-371	-816	-441

Difference

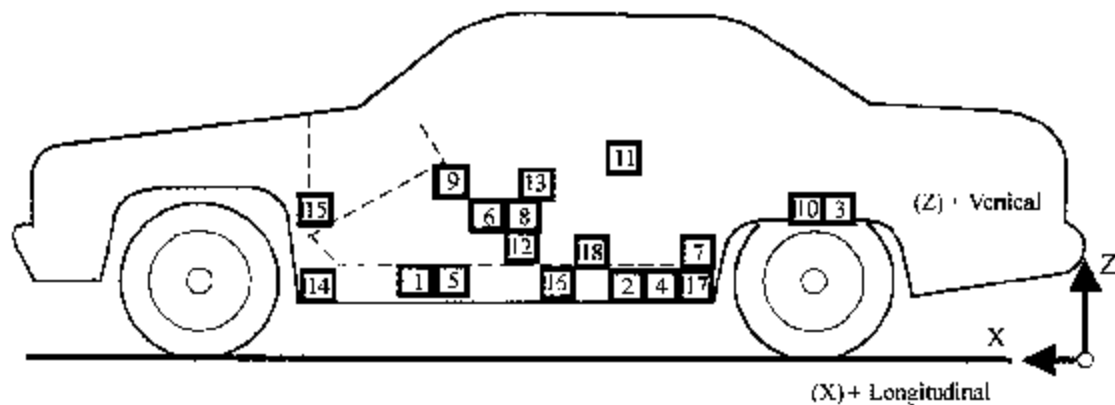
Index	Xmm	Ymm	Zmm
52	-170	33	20
53	-148	27	35
54	-120	23	47
55	-98	20	54
56	-86	19	57
57	-84	19	55
58	-77	19	54
59	-76	20	52
60	-76	19	49
61	-77	19	46
62	-77	19	44
63	-78	19	41
64	-79	19	38
65	-81	19	35
66	-88	19	30
67	-97	18	23
68	-104	17	14

Data Sheet 13

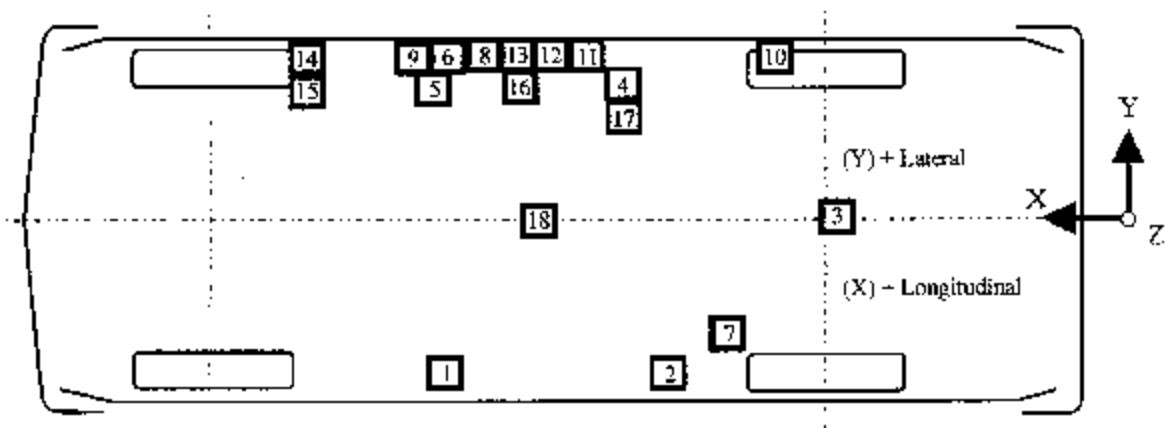
Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



Side View



Bottom View

- | | |
|------------------------------------|--|
| 1-Right Front Side Sill | 10-Left Rear Door Mid Rear |
| 2-Right Side Sill at Rear Seat | 11-Left Rear Door Upper Centerline |
| 3-Rear Floorpan above Axle | 12-Left Side Lower B-pillar |
| 4-Left Side Sill at Rear Seat | 13-Left Side Middle B-pillar |
| 5-Left Front Side Sill | 14-Left Side Lower A-pillar |
| 6-Left Front Door on Centerline | 15-Left Side Middle A-pillar |
| 7-Right Rear Occupant Compartment | 16-Left Side Front Seat Track at H-point |
| 8-Left Front Door Mid Rear | 17-Left Rear Seat Track at H-point |
| 9-Left Front Door Upper Centerline | 18-Vehicle Center of Gravity |

Data Sheet 13 (Continued)

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

TEST NUMBER: 030325-1				POSITIVE		NEGATIVE	
No. LOCATION	X	Y	Z	DIRECTION		DIRECTION	
1 RIGHT SIDE SILL	3184 mm	654 mm	-253 mm				
AT FRONT SEAT							
LONGITUDINAL				6.6 g	@ 62.4 ms	6.7 g	@ 16.2 ms
LATERAL				18.4 g	@ 23.4 ms	2.5 g	@ 162.8 ms
VERTICAL				6.2 g	@ 50.9 ms	5.8 g	@ 27.8 ms
RESULTANT				18.6 g	@ 23.4 ms		
2 RIGHT SIDE SILL	2080 mm	660 mm	-246 mm				
AT REAR SEAT							
LONGITUDINAL				6.5 g	@ 62.5 ms	6.6 g	@ 16.4 ms
LATERAL				19.3 g	@ 7.8 ms	2.2 g	@ 179.0 ms
VERTICAL				6.6 g	@ 39.8 ms	7.0 g	@ 21.2 ms
RESULTANT				20.1 g	@ 7.8 ms		
3 REAR FLOORPAN	1248 mm	-35 mm	-585 mm				
ABOVE AXLE							
LONGITUDINAL				4.8 g	@ 56.2 ms	9.8 g	@ 19.8 ms
LATERAL				19.8 g	@ 11.2 ms	1.8 g	@ 206.9 ms
VERTICAL				9.7 g	@ 18.5 ms	4.5 g	@ 10.9 ms
RESULTANT				20.8 g	@ 11.0 ms		
4 LEFT SIDE SILL	2038 mm	-666 mm	-242 mm				
AT REAR SEAT							
LATERAL				47.5 g	@ 4.4 ms	11.7 g	@ 61.0 ms

Data Sheet 13 (Continued)

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

TEST NUMBER: 030325-1					POSITIVE	NEGATIVE
No. LOCATION	X	Y	Z		DIRECTION	DIRECTION
5 LEFT SIDE SILL AT FRONT SEAT LATERAL ¹	3198 mm	-646 mm	-278 mm			
6 LEFT FRONT DOOR ON CENTERLINE LATERAL	2774 mm	-802 mm	-615 mm	202.7 g @ 7.9 ms	145.7 g @ 27.5 ms	
7 RIGHT REAR OCCUPANT COMPARTMENT ¹ LATERAL	1880 mm	470 mm	-262 mm	19.2 g @ 7.4 ms	2.1 g @ 179.7 ms	
8 LEFT FRONT DOOR HIDREAR LATERAL ¹	2448 mm	-776 mm	-639 mm			
9 LEFT FRONT DOOR UPPER CENTERLINE LATERAL ¹	2770 mm	-785 mm	-852 mm			
10 LEFT REAR DOOR HIDREAR LATERAL ¹	1462 mm	-780 mm	-683 mm			
11 LEFT REAR DOOR UPPER CENTERLINE LATERAL	1762 mm	-779 mm	-860 mm	148.7 g @ 17.7 ms	48.6 g @ 35.0 ms	

Data Sheet 13 (Continued)

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

TEST NUMBER: 030325-1	X		Y	Z	POSITIVE DIRECTION		NEGATIVE DIRECTION	
No. LOCATION								
12 LEFT LOWER B-POST LATERAL	2278 mm	-713 mm	-526 mm	58.1 g	@ 4.5 ms	27.1 g	@ 22.0 ms	
13 LEFT MIDDLE B-POST LATERAL	2255 mm	-708 mm	-678 mm	---	---	---	---	
14 LEFT LOWER A-POST LATERAL	3308 mm	-765 mm	-456 mm	---	---	---	---	
15 LEFT MIDDLE A-POST LATERAL	3306 mm	-753 mm	-612 mm	75.3 g	@ 3.1 ms	68.4 g	@ 7.8 ms	
16 LEFT FRONT SEAT TRACK LATERAL	2539 mm	-575 mm	-272 mm	55.4 g	@ 18.2 ms	17.6 g	@ 23.2 ms	
17 LEFT REAR SEAT TRACK LATERAL	1833 mm	-652 mm	-340 mm	---	---	---	---	
18 VEHICLE CENTER OF GRAVITY	2611 mm	0 mm	-430 mm	19.3 g	@ 26.6 ms	15.8 g	@ 32.2 ms	
LONGITUDINAL				62.8 g	@ 22.3 ms	56.2 g	@ 27.8 ms	
LATERAL				29.4 g	@ 24.8 ms	18.5 g	@ 19.9 ms	
VERTICAL				63.2 g	@ 22.5 ms			
RESULTANT								

REFERENCE: X: + FORWARD FROM REAR BUMPER

Y: + RIGHTWARD FROM VEHICLE CENTERLINE

Z: + DOWNWARD FROM GROUND LEVEL

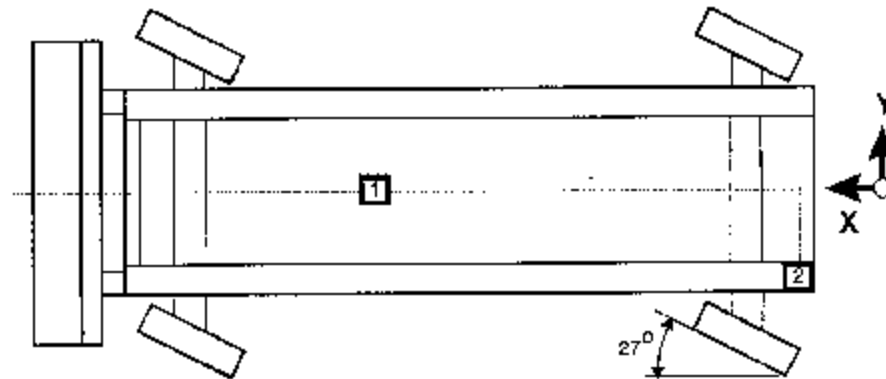
For acceleration data sign convention, see Report Sign Convention in Appendix D.
 1 See DATA ACQUISITION EXPLANATIONS

Data Sheet 14

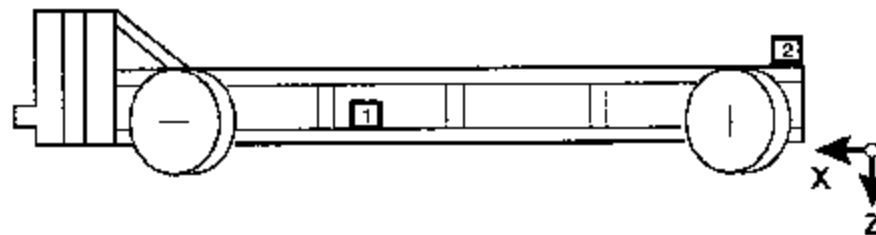
MDB Accelerometer Locations and Data Summary

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



TOP VIEW



SIDE VIEW

Accel. No.	Location	Coordinates (millimeters)			Positive Direction		Negative Direction	
		X*	Y*	Z*	Max. (g)	Time (ms)	Max. (g)	Time (ms)
1	MDB Center of Gravity	1853	0	-519				
	Longitudinal X				3.1	120.6	20.4	44.4
	Lateral Y				3.9	59.8	8.8	72.6
	Vertical Z				7.3	56.0	8.0	17.8
	Resultant R				21.6	44.6		
2	Rear Frame Member	411	-738	-628				
	Longitudinal X				2.1	180.3	21.4	40.0
	Lateral Y				3.2	27.4	1.9	176.2

*Reference: X = Rear Bumper (- Forward)

Y = Vehicle Centerline (+ To Right)

Z = Ground Level (+ Down)

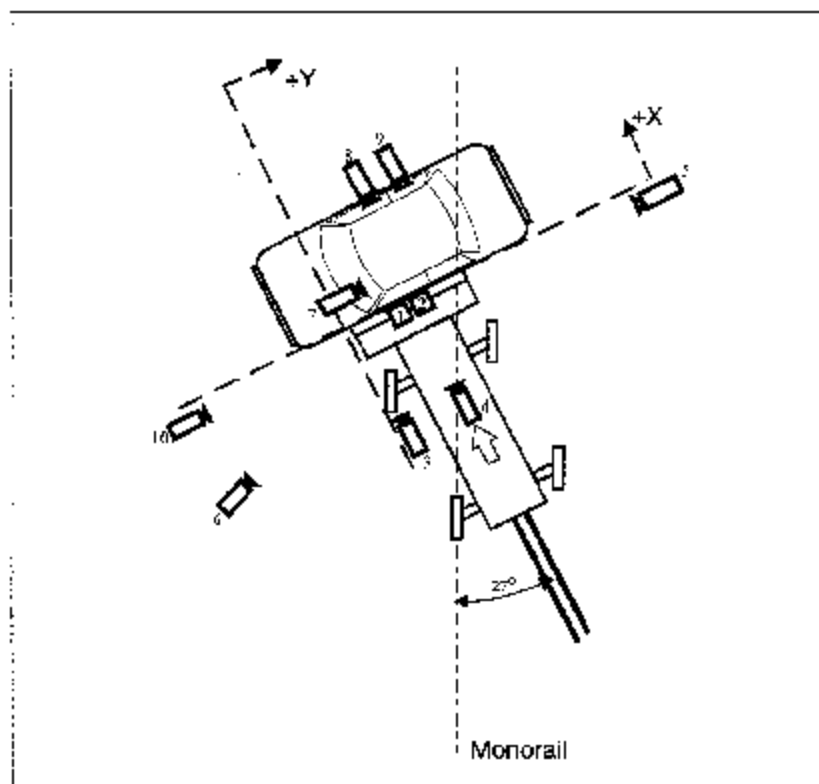
All measurements accurate to within ± 3 mm.

Data Sheet 15

High-Speed Camera Locations and Data Summary

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308



Impact
Area

Camera Number	Location	Location, mm			Angle (deg)	Lens (mm)	Speed (fps)
		X	Y	Z			
1	Overhead wide	250	2150	-5750	-78.5	8.5	775 ¹
2	Overhead tight	370	1800	-5750	-84.6	17	1015
3	Onboard MDB left side	-1750	-40	-720	-0.3	13	1025
4	Onboard MDB center	-2480	830	-1353	-6.2	25	1010
5	Right side of MDB	-170	11353	1153	1.3	13	1000
6	Left side of MDB	-852	5530	1140	-4.4	13	1035
7	Onboard vehicle front	530	540	1200	-2.8	8	N/A ²
8	Onboard side front door	1790	745	1025	-4.0	8	N/A ³
9	Onboard side rear door	1660	1700	1100	-8.3	8	1005
10	Digital overall event	-570	6200	1130	-4.0	13	1000

+X: Forward (referenced to MDB) from impact point

+Y: Rightward (referenced to MDB) from impact point

+Z: Downward from ground level

¹ Camera ran slower than OVSC TP-214D specifications.

² Film did not display any LED timing marks and therefore a speed could not be determined.

³ Camera ran too slow to time.

Section 5

Vehicle Fuel System Integrity

Data Sheet 16

FMVSS 301 Fuel System Integrity Data

NHTSA No.: C35308

Test Date: 03/25/03

Vehicle Year/Make/Model/Body Style: 2003 Honda Accord 4-door

Test Vehicle Impact Type : ☐ Frontal (48.28 km/h)
 ☐ Oblique (48.28 km/h) with ☐° barrier
 face first contacting the (driver/passenger) side
 ☐ Rear Moving Barrier (48.28 km/h)
 ☐ Lateral Moving Barrier (32.19 km/h)
 ☒ Side Impact Moving Deformable Barrier
 (62.1 km/h) contacting the ☐ Driver side

Fuel Spillage Measurement:

1. From impact until vehicle motion ceases
2. For five-minute period after vehicle motion ceases
3. For next 25 minutes.

Actual	Maximum Allowed
0 g	28 g
0 g	142 g
0 g	28 g/l minute

Solvent Spillage Details :

None

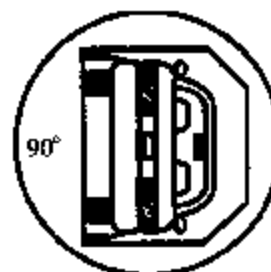
Data Sheet 17

FMVSS 301 Rollover Data

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

0 - 90 Degrees



1. Determination of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time + 5 minutes 0 seconds

Total 6 minutes 30 seconds

Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

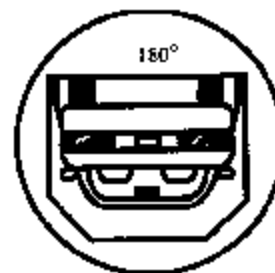
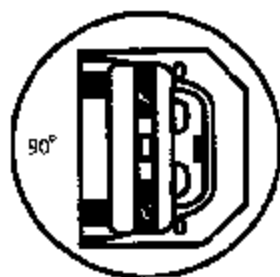
Data Sheet 17 (Continued)

FMVSS 301 Rollover Data

Vehicle: 2003 Honda Accord 4-door

NJITSA No.: C35308

90 - 180 Degrees



1. Determination of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds
(Spec. Range = 1 to 3 minutes)
FMVSS 301 Position Hold Time + 5 minutes 0 seconds
Total 6 minutes 30 seconds
Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

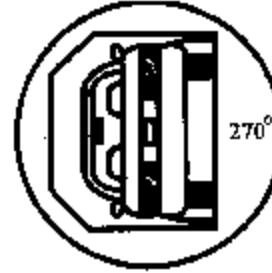
Data Sheet 17 (Continued)

FMVSS 301 Rollover Data

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

180 - 270 Degrees



1. Determination of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds
(Spec. Range = 1 to 3 minutes)
FMVSS 301 Position Hold Time + 5 minutes 0 seconds
Total 6 minutes 30 seconds
Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

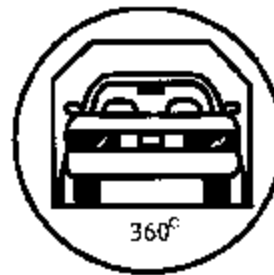
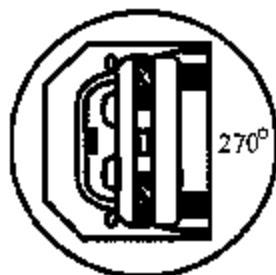
Data Sheet 17 (Continued)

FMVSS 301 Rollover Data

Vehicle: 2003 Honda Accord 4-door

NHTSA No.: C35308

270 - 360 Degrees



1. Determination Of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds
(Spec. Range = 1 to 3 minutes)
FMVSS 301 Position Hold Time + 5 minutes 0 seconds
Total 6 minutes 30 seconds
Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

Appendix A

Photographs

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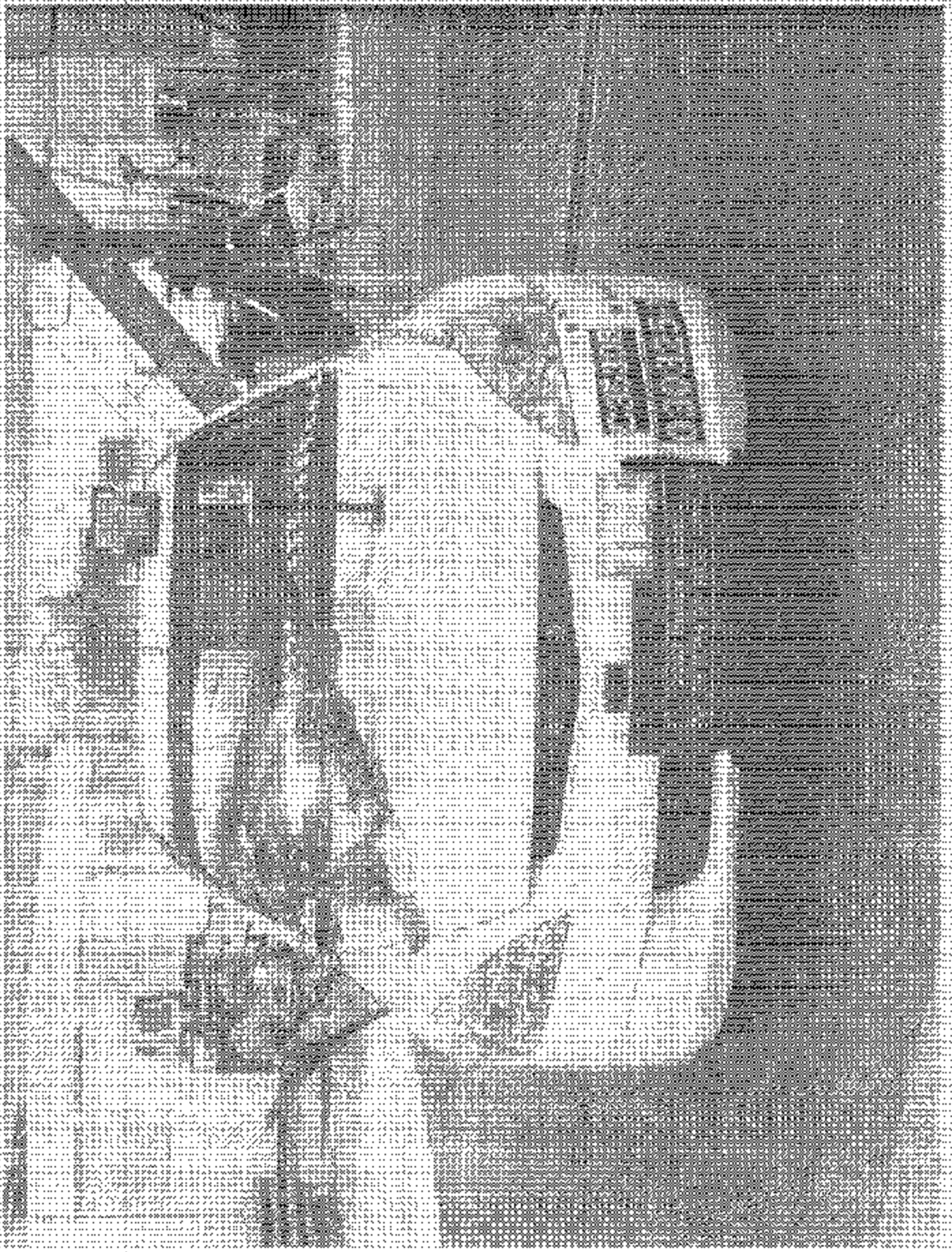


Figure A-1. Pre-Test Front View of Test Vehicle

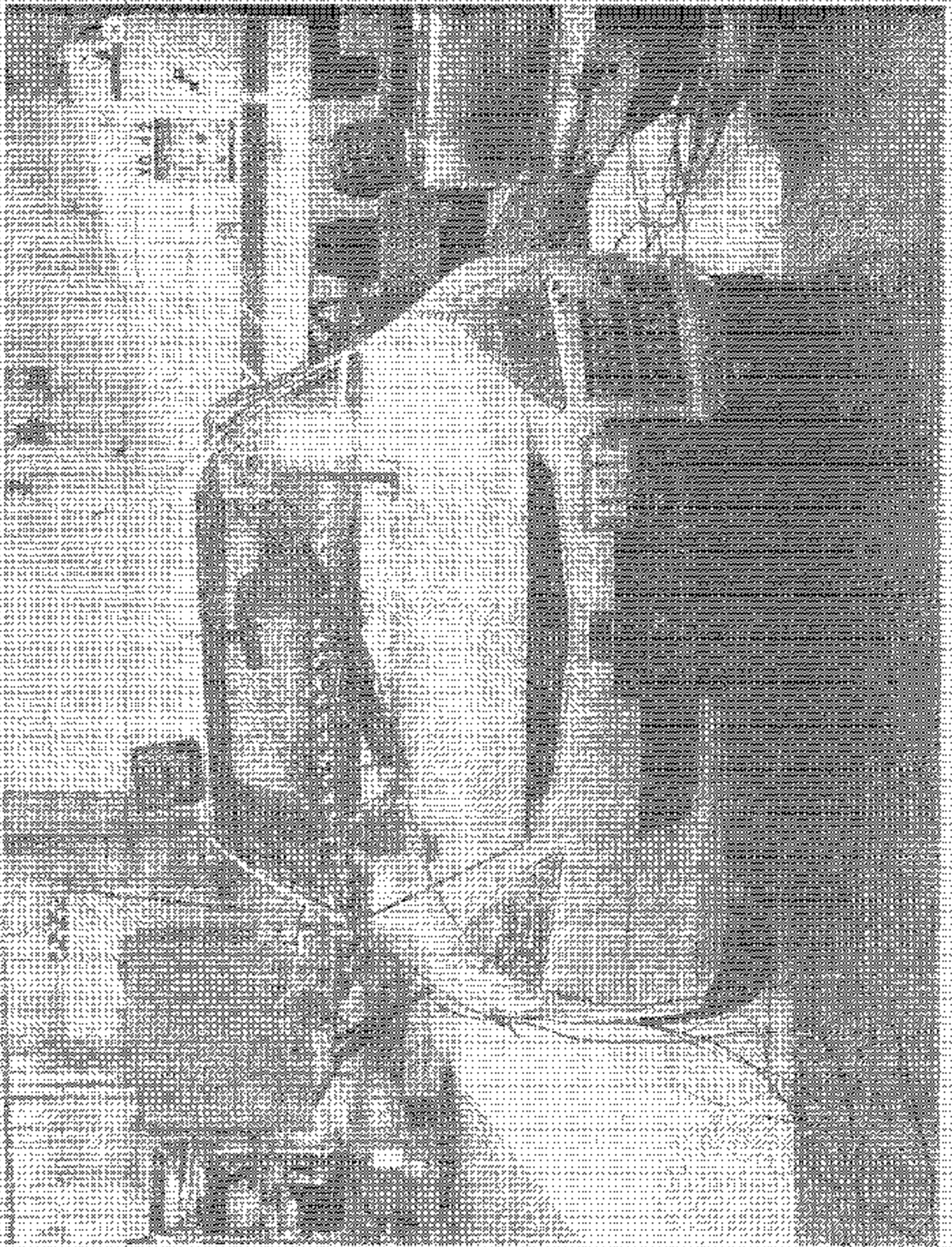


FIGURE A-2 Post-Test Front View of Test Vehicle

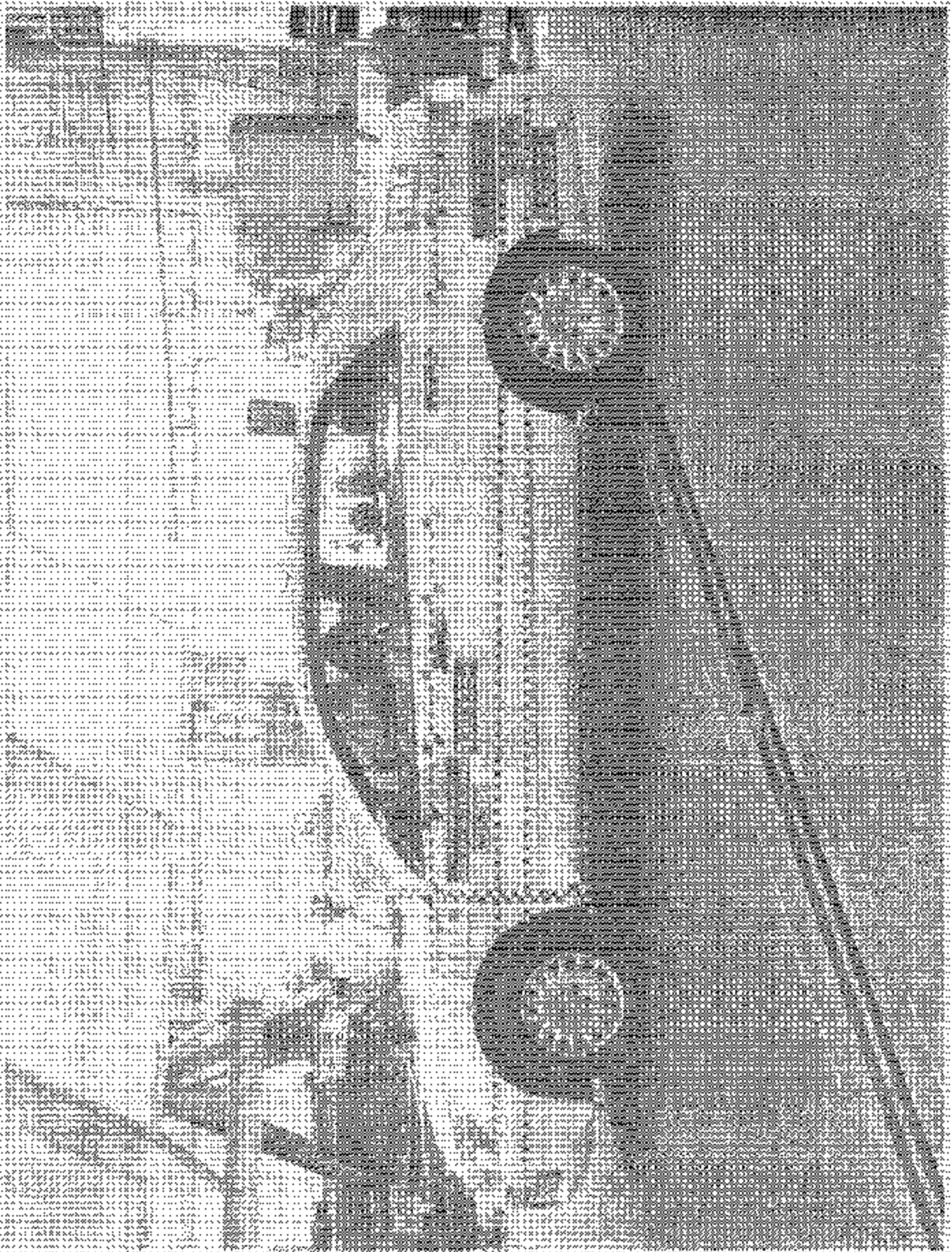


Figure A-1 Pre-Test Impacted Side View of Test Vehicle

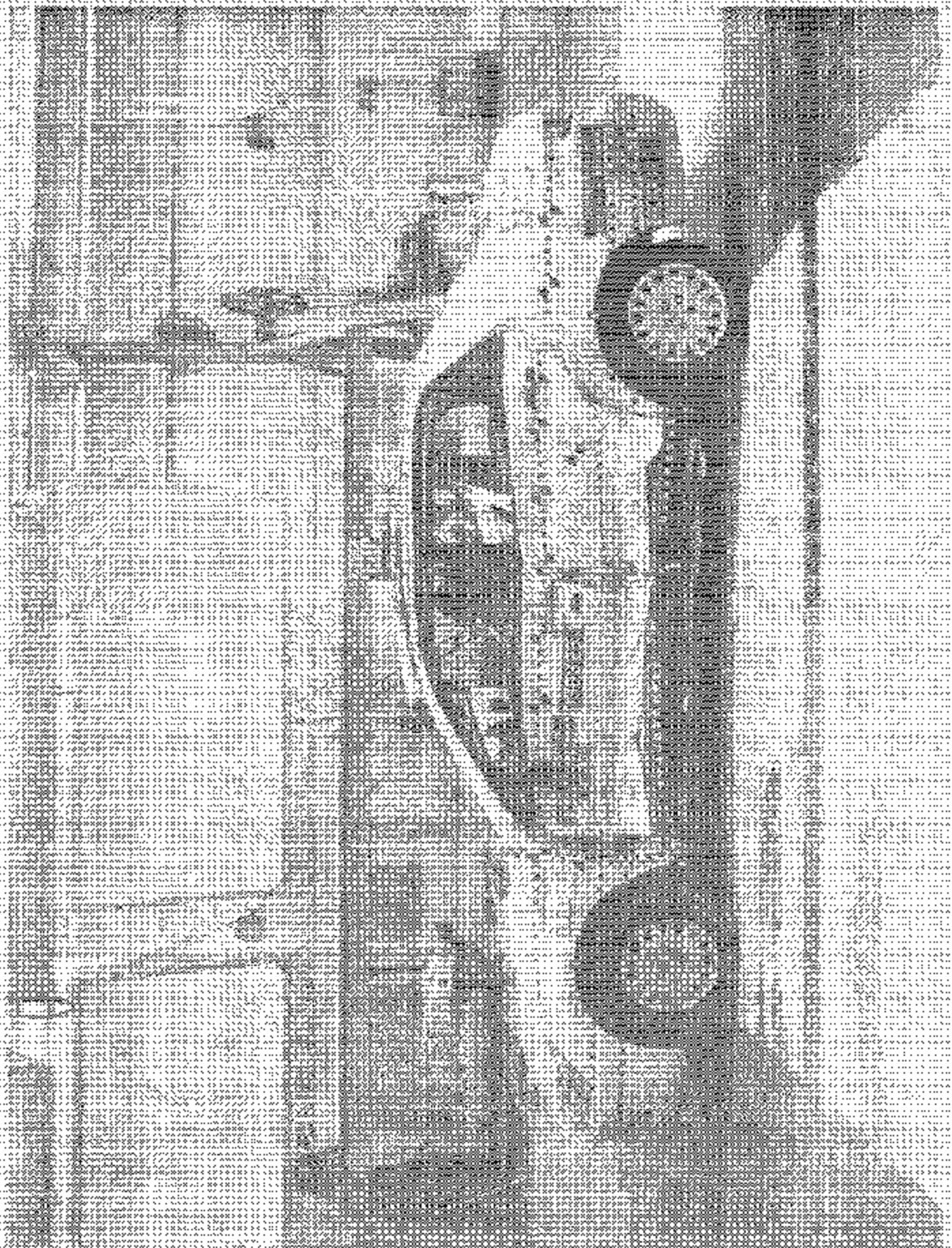


Figure A-4. Post-Test Impacted Side View of Test Vehicle

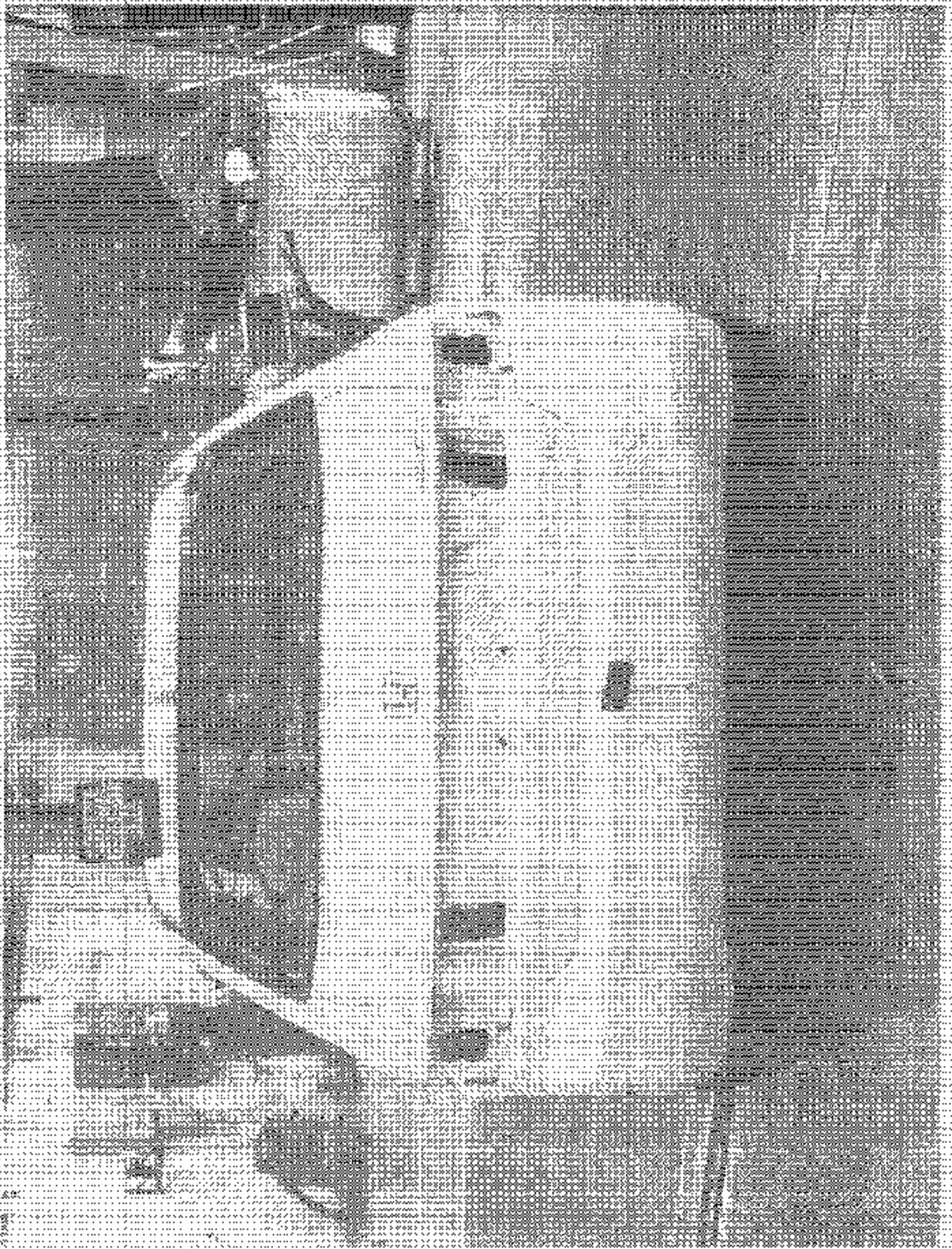


Figure A-5 Pre-Test Rear View of Test Vehicle

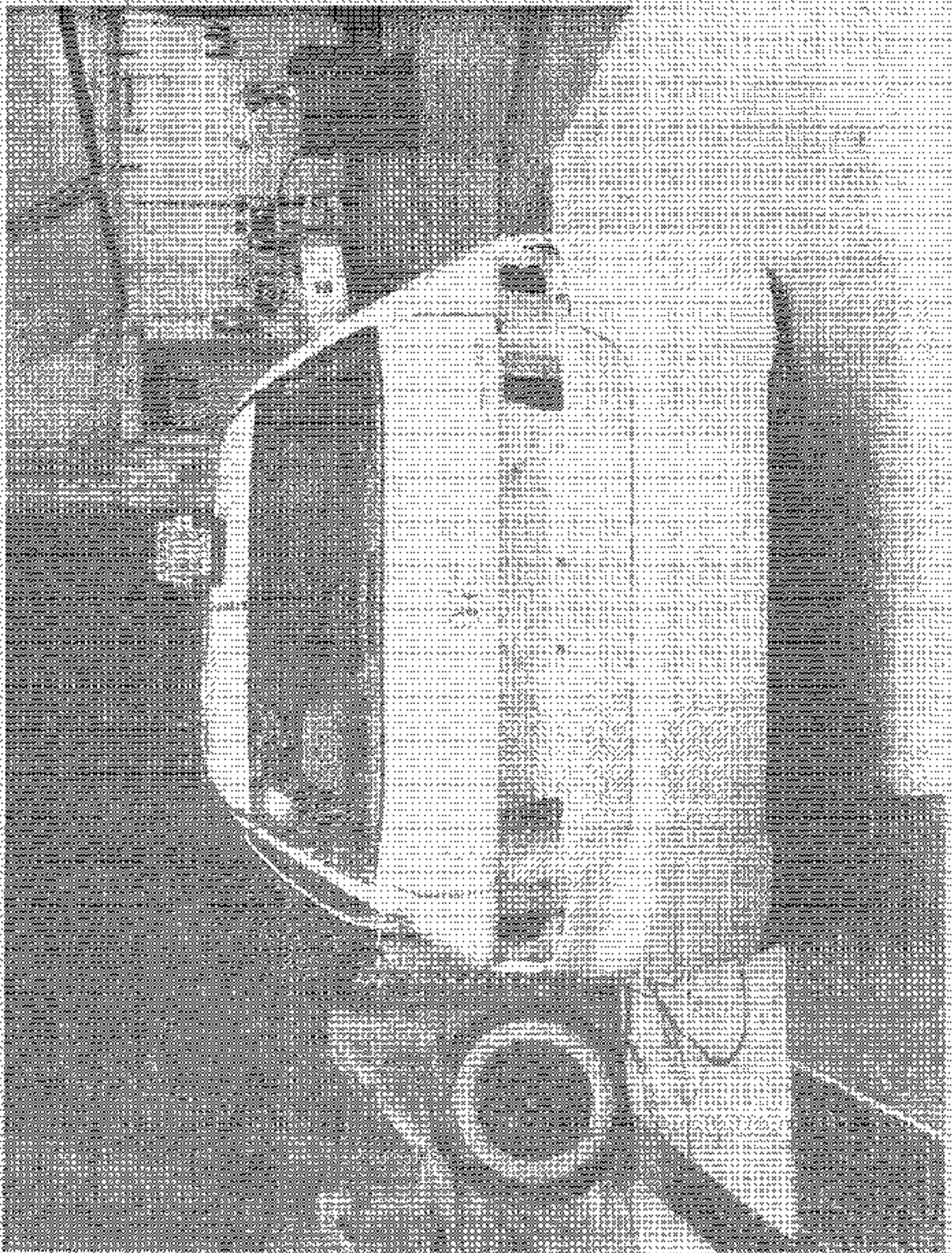


Figure A-4. Post-Test Rear View of Test Vehicle

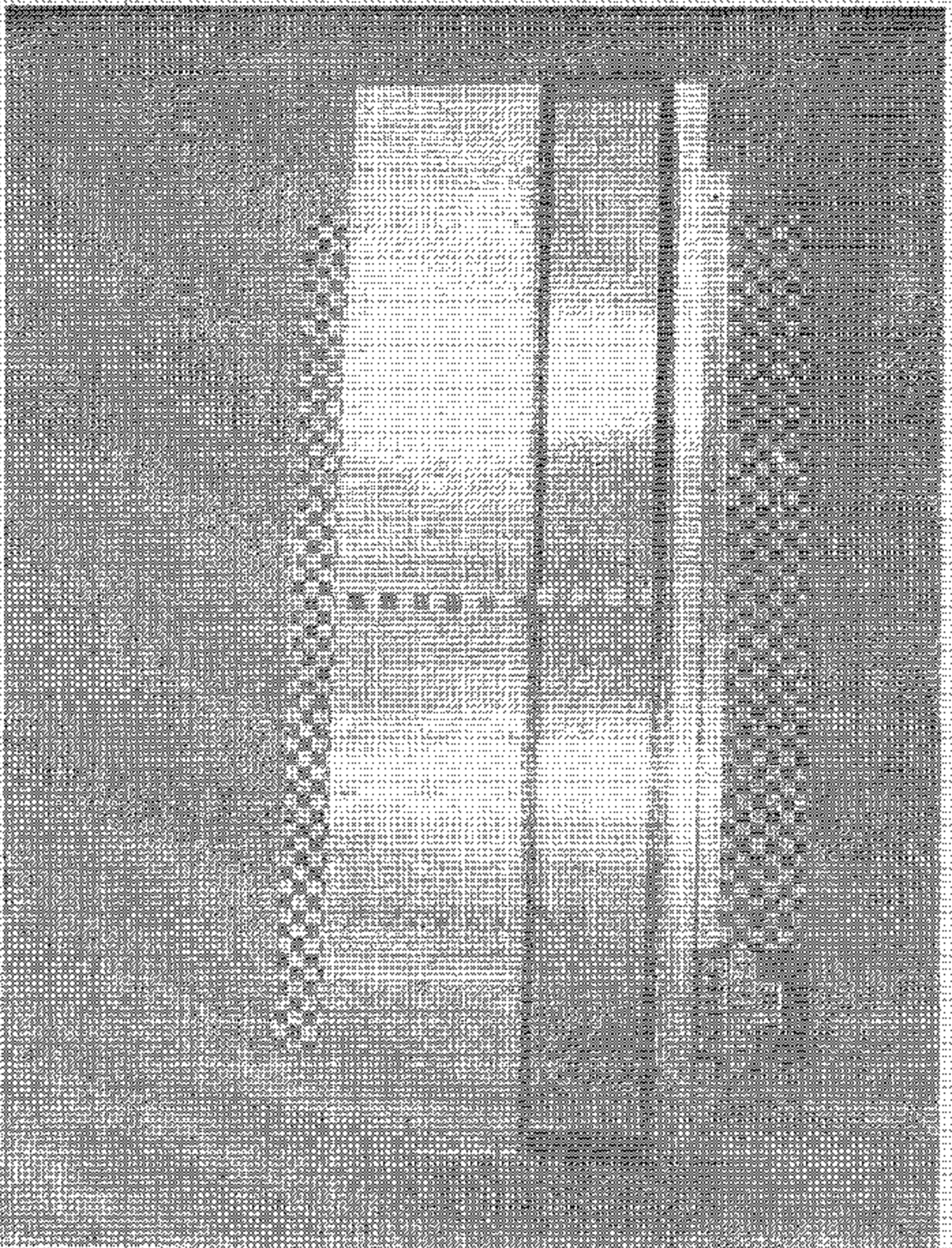


Figure A-7 Pre-Test Frontal View of Inspector Face

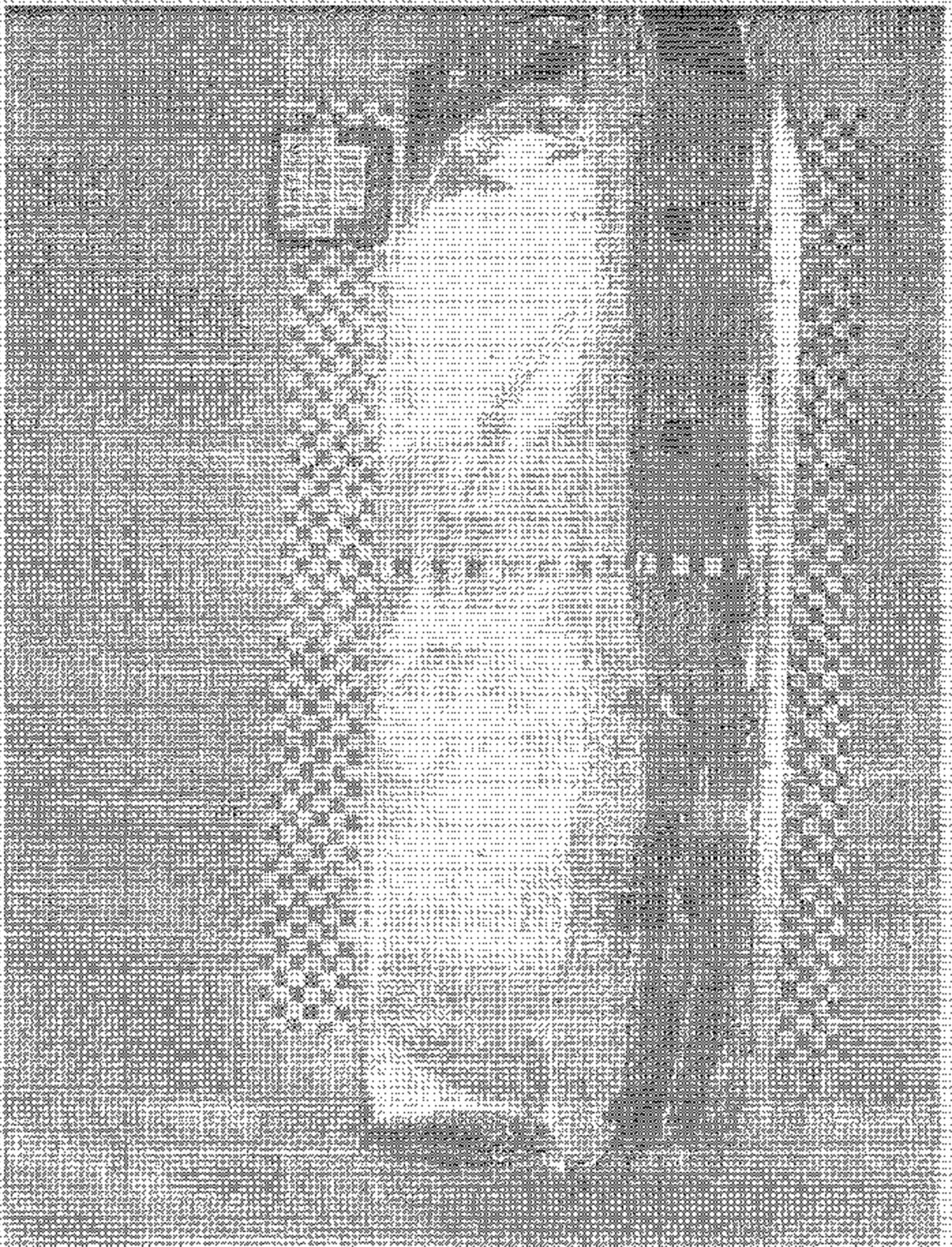


Figure A-8. Post-Test Frontal View of Impactor Face

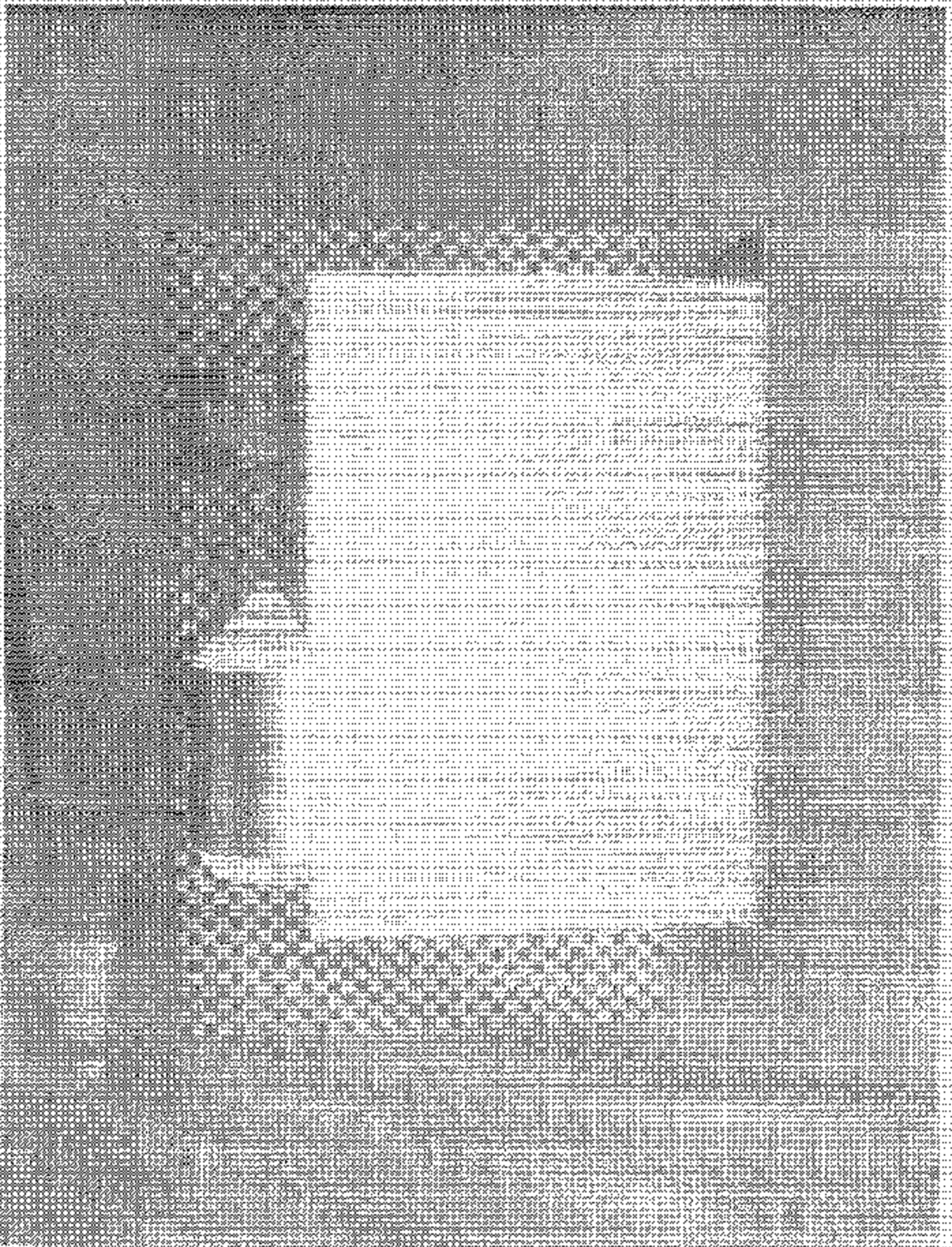


Figure A-9 Pre-Test Left Side View of Propeller Face

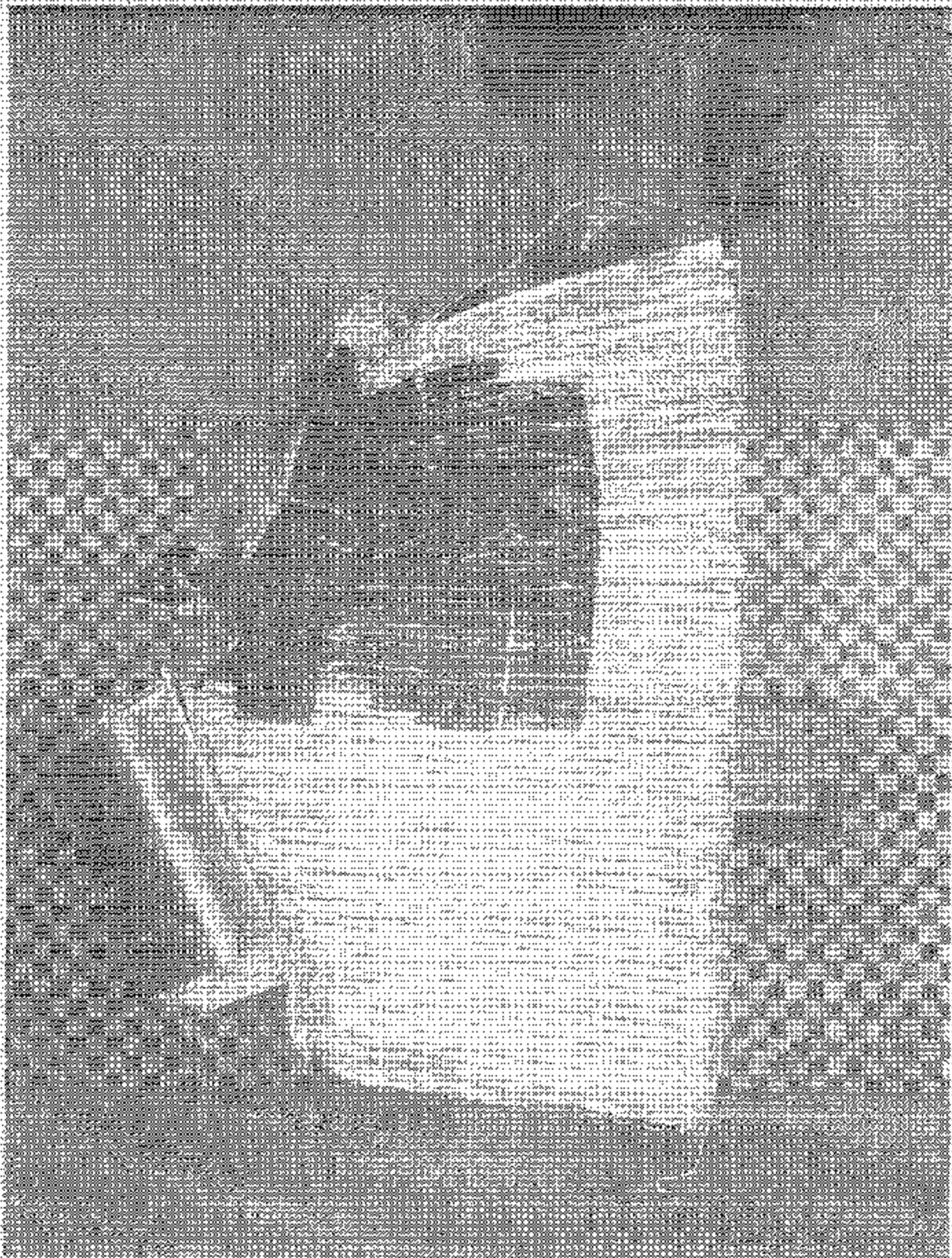


Figure A-10. Post-Test ICF Side View of Impactor Face

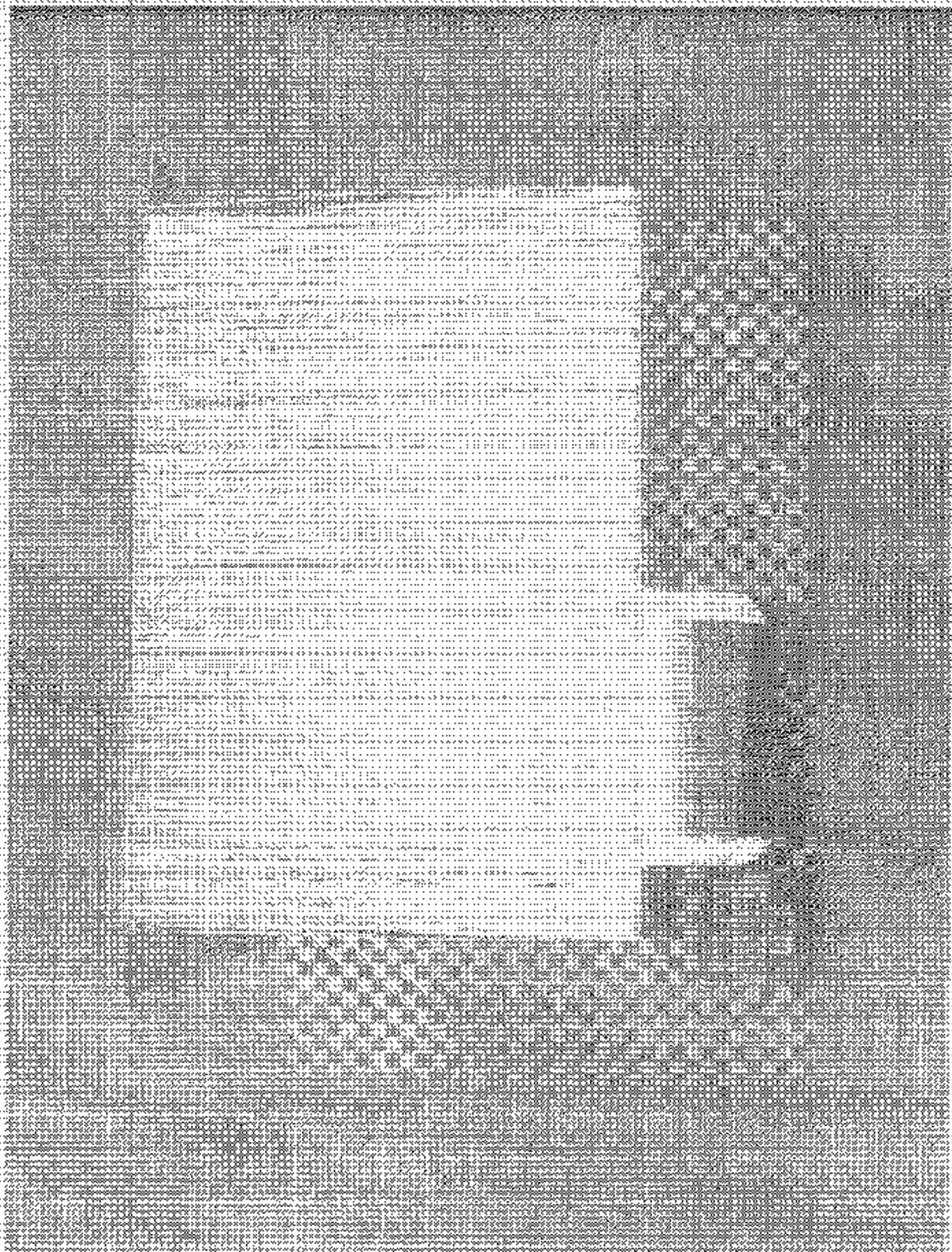


Figure A-11 Pre-test Right Side View of Impactor Fore

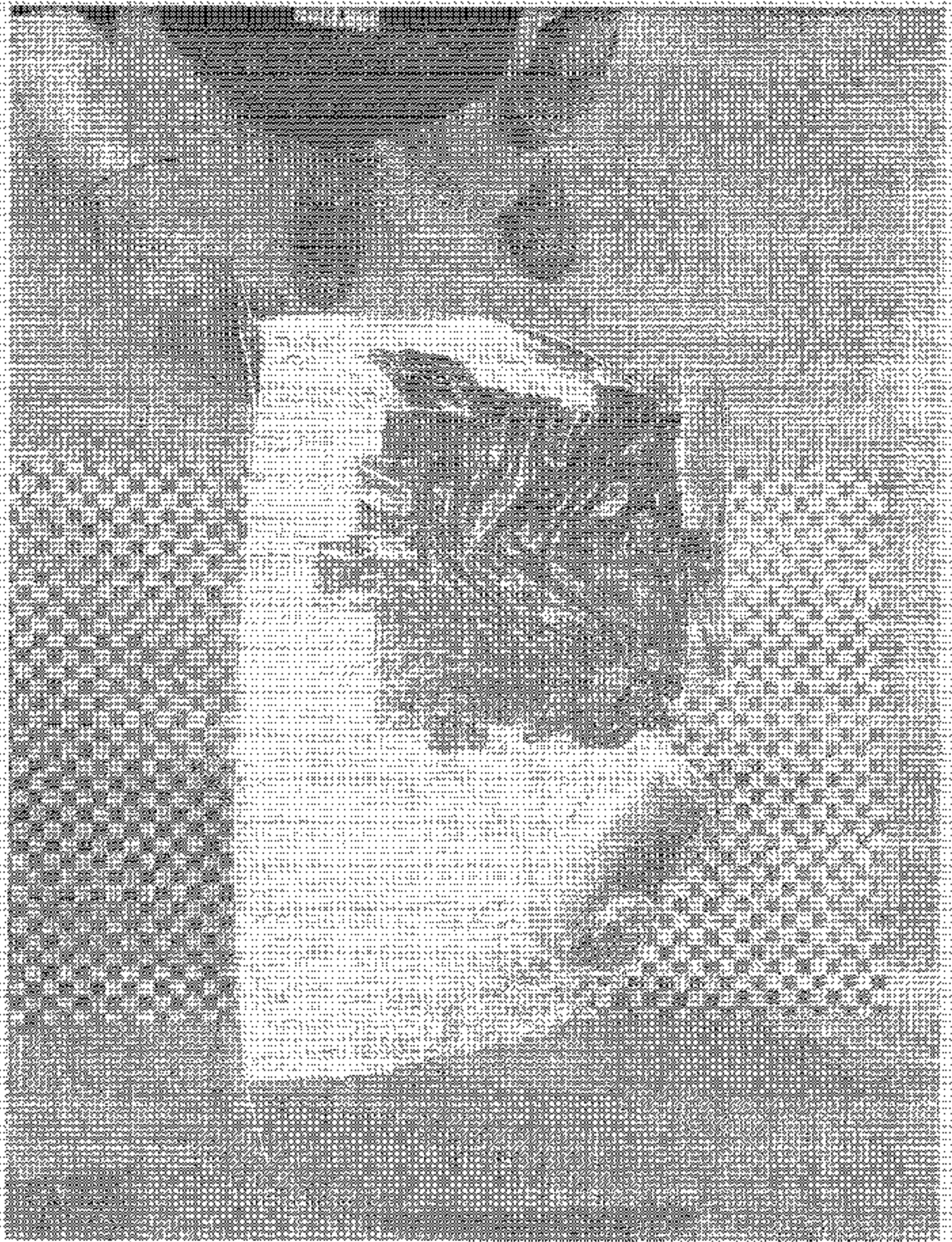


Figure A-12. Post-Test Right Side View of Impactor Face.

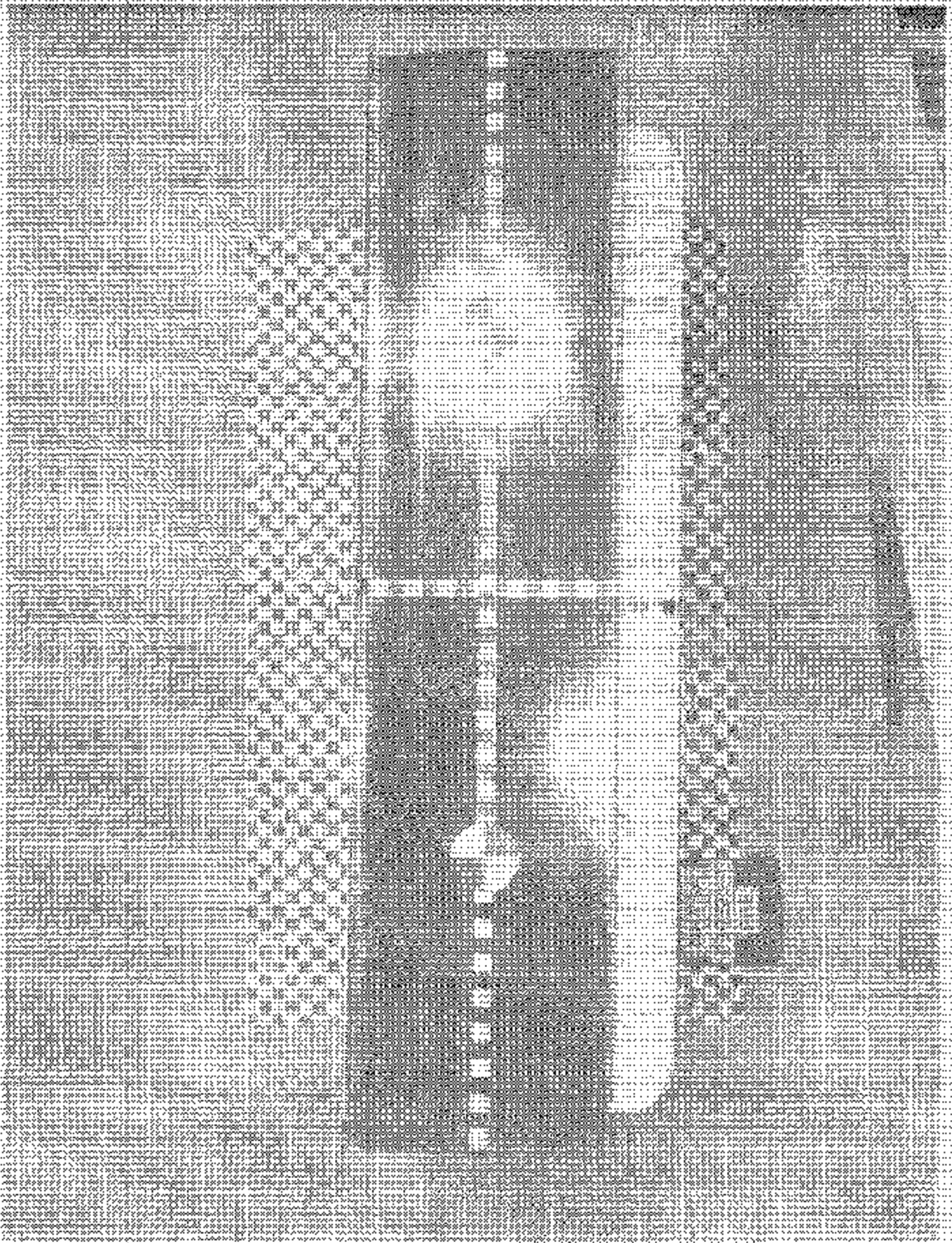


Figure A-13. Pre-Test Top View of Impactor Case

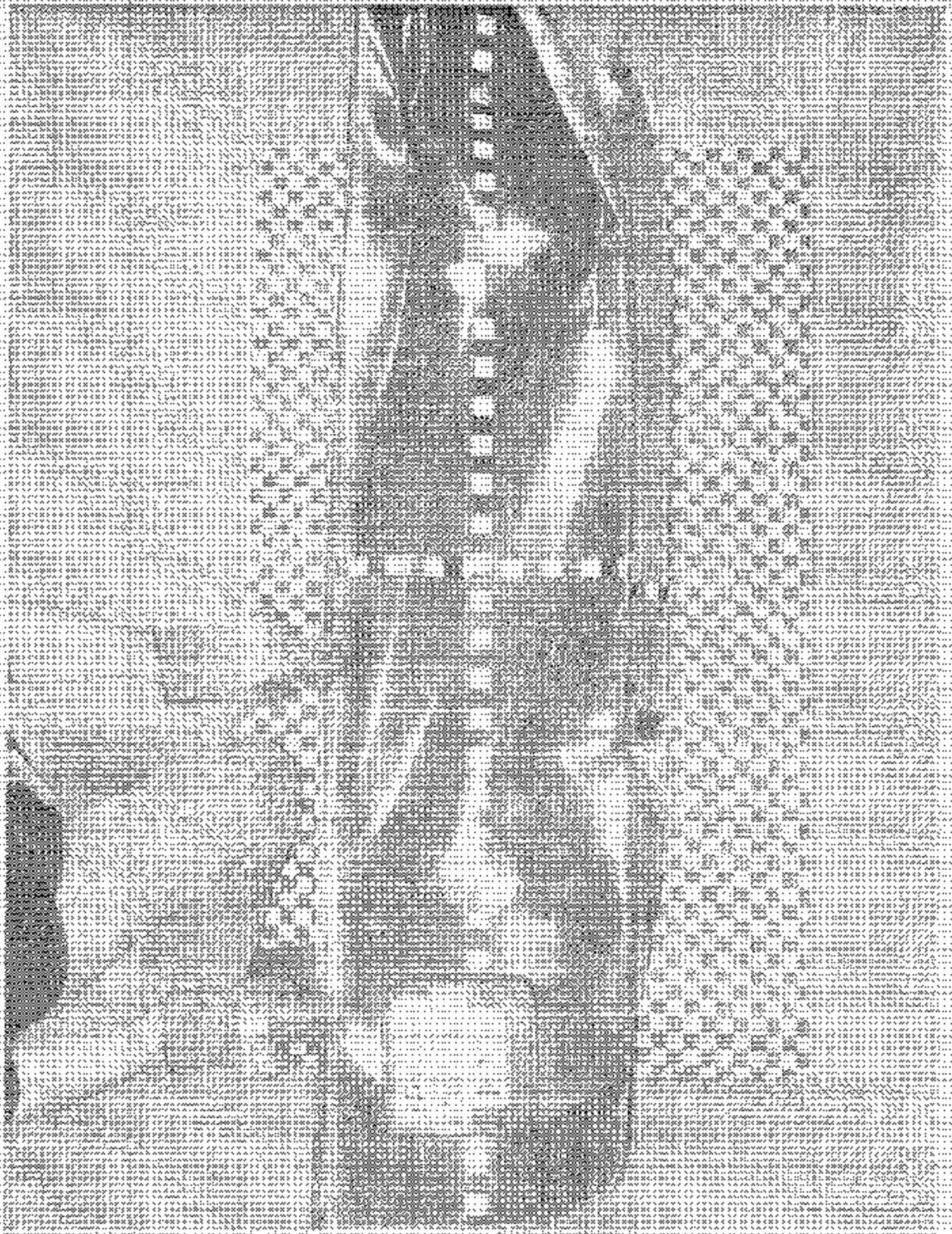


Figure A-14. Post-Test Top View of Impactor Face

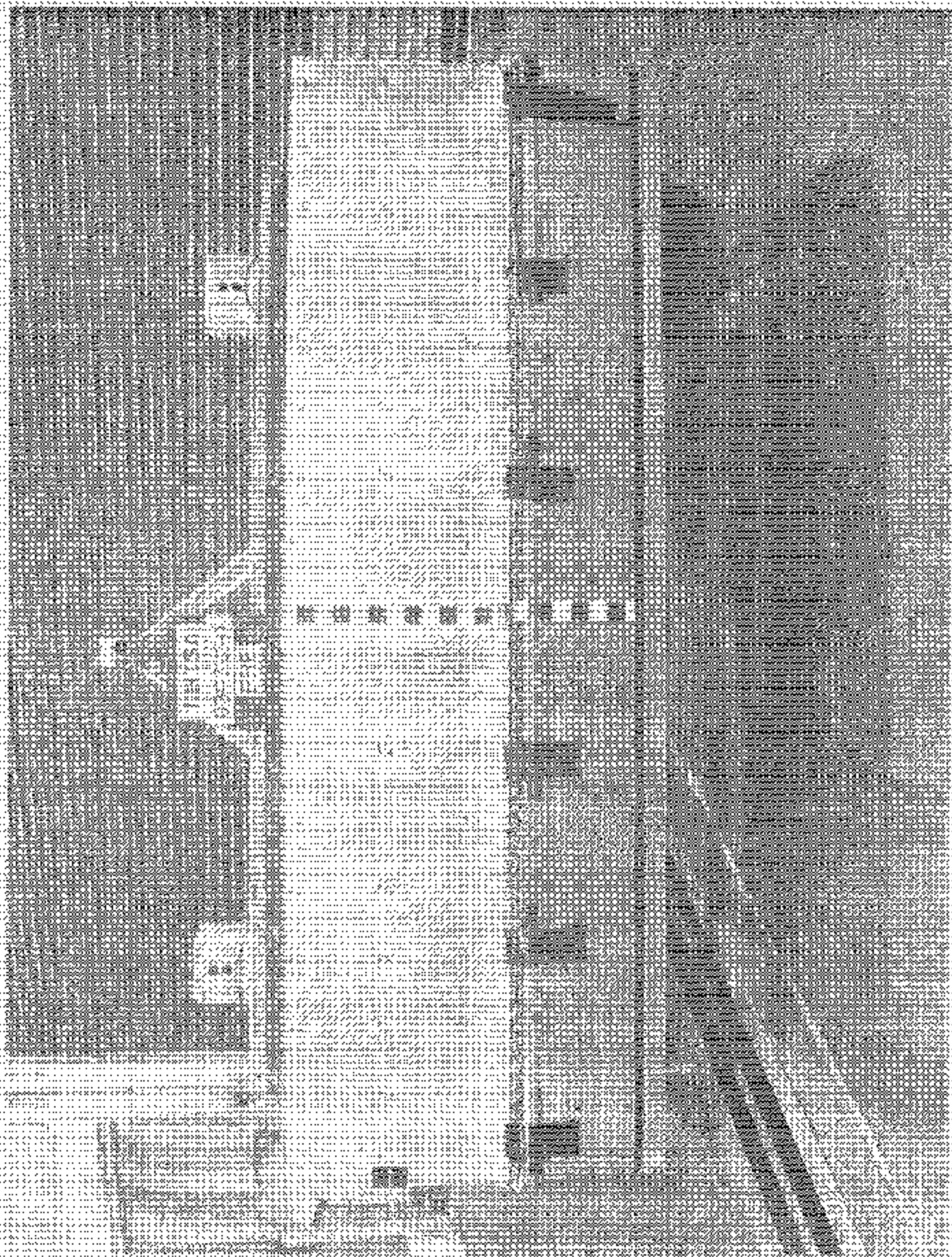


Figure A-15 Pre-Test View of MDR Showing Control Switches in Place

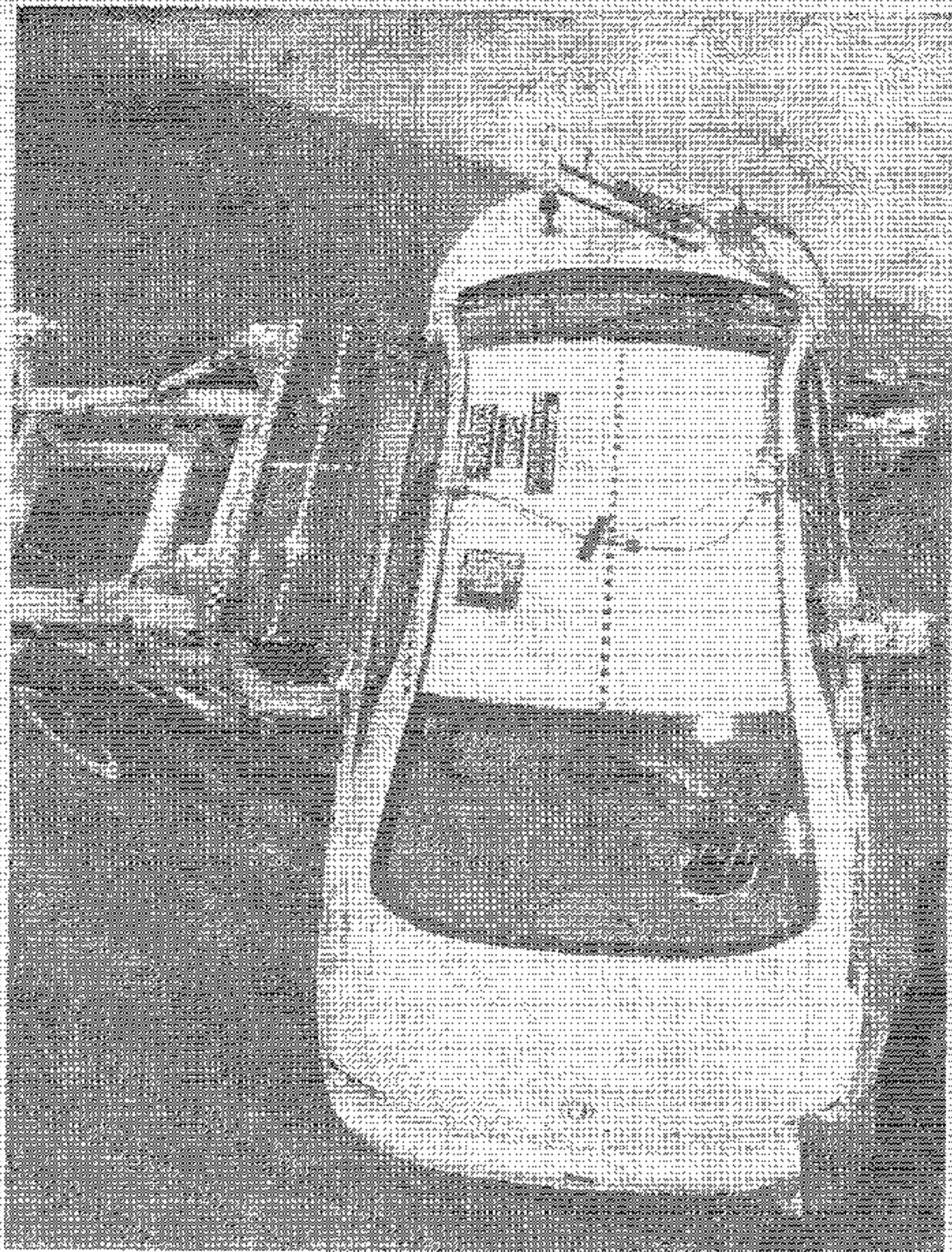


Figure A-10. Pre-Test Overhead View of MDB Aligned with Vehicle

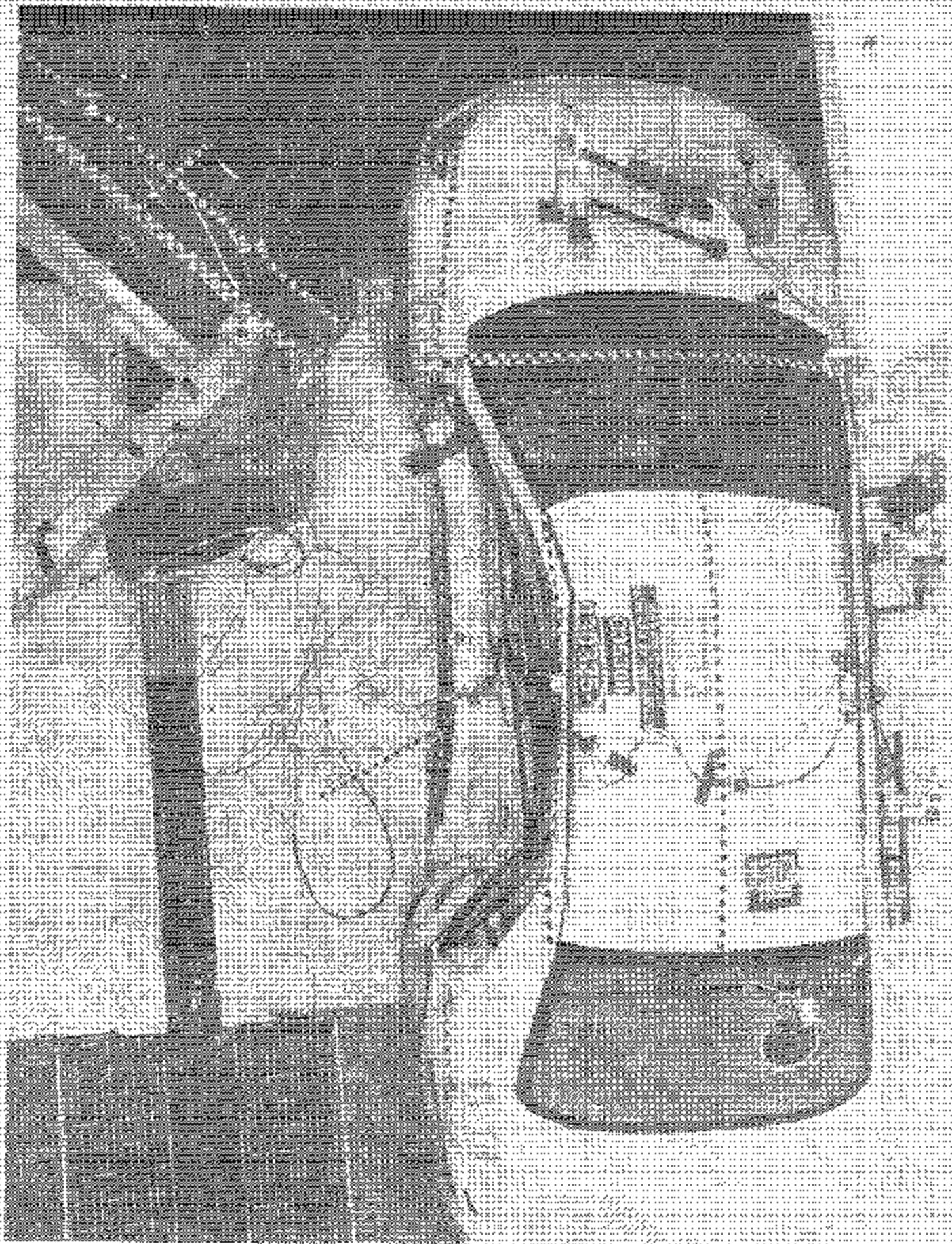


Figure A-17. Post-Test Overhead View of MDB and Vehicle - View 1

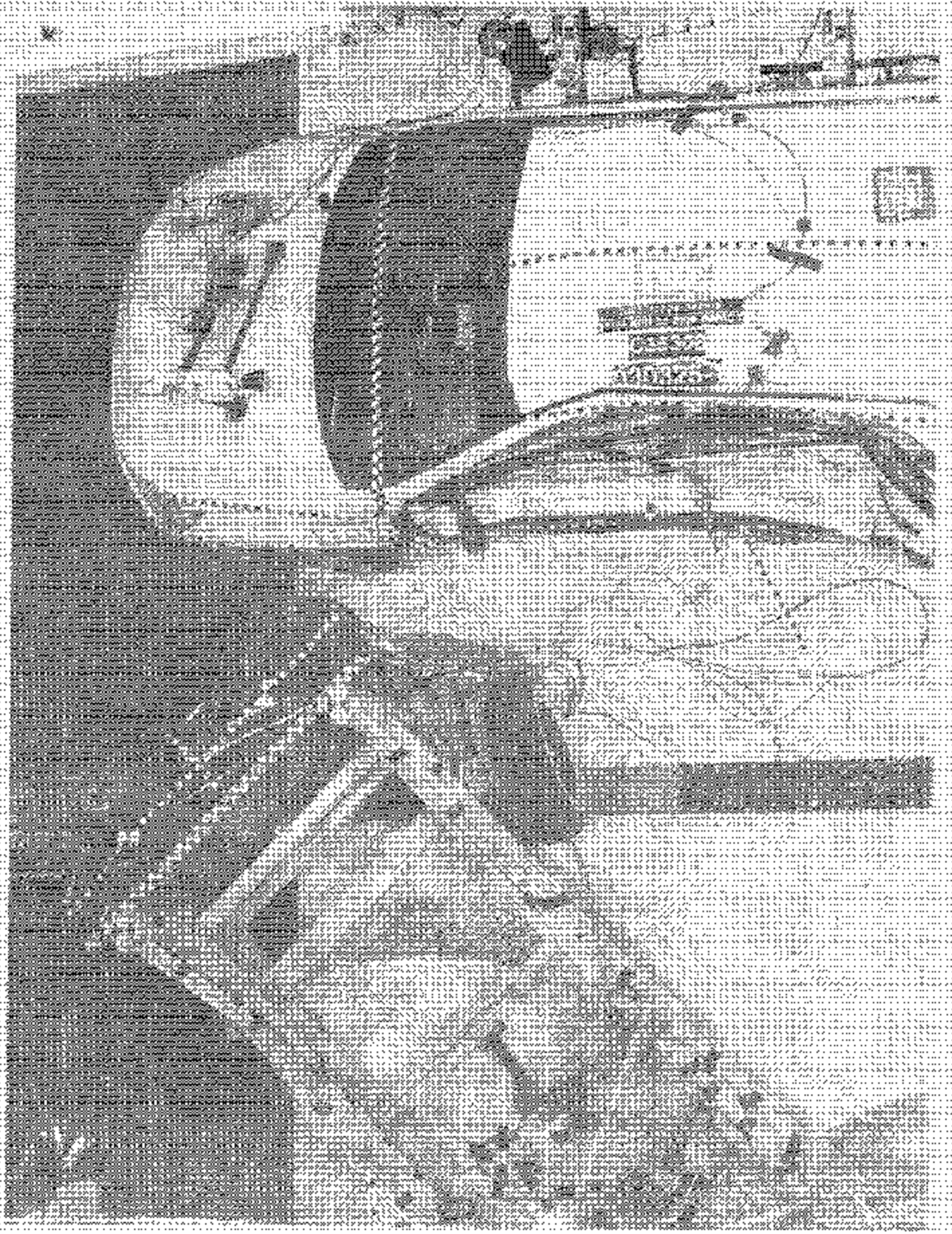


Figure A-18. Post-Test Overhead View of MMR and Vehicle - View 2

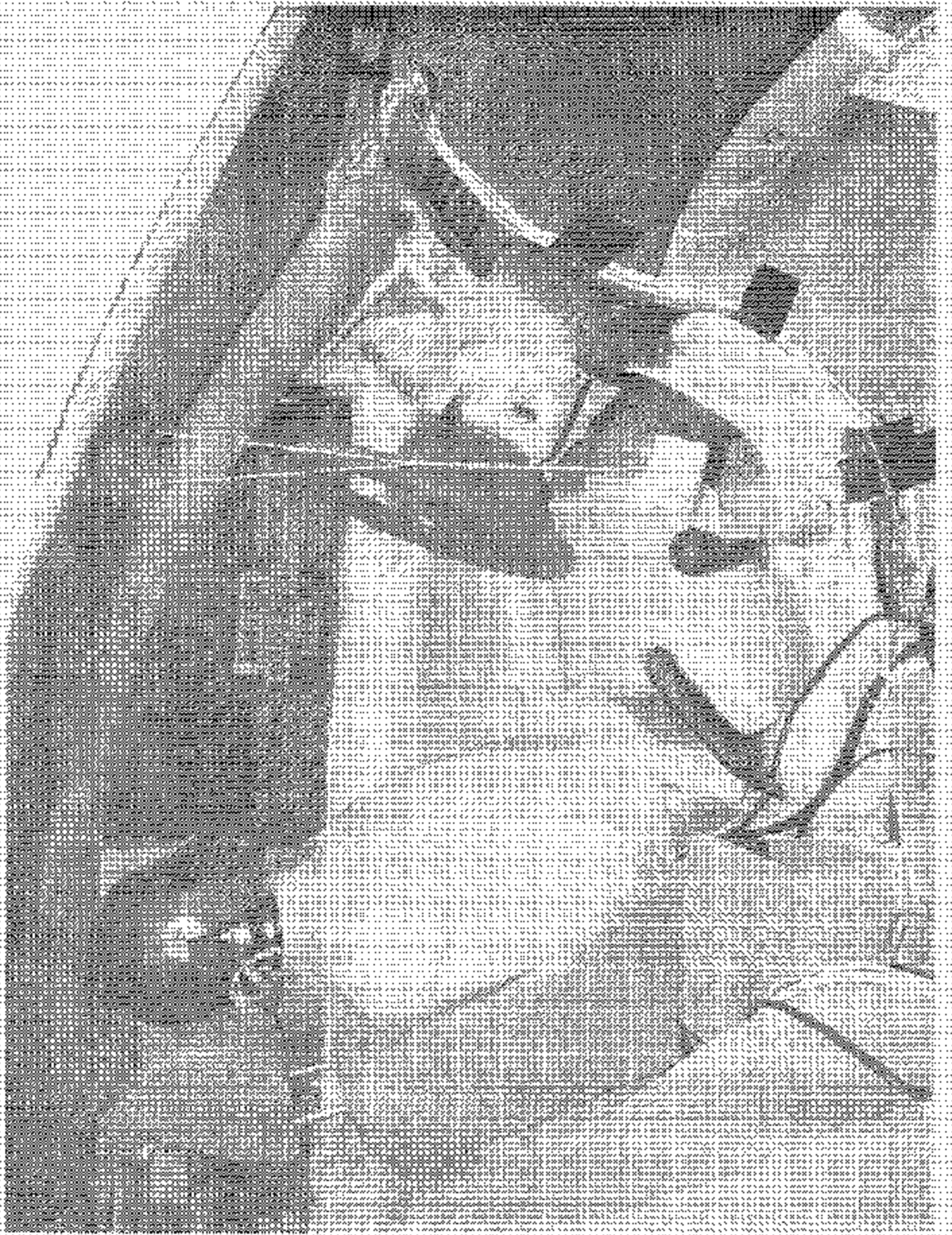


Figure A-19: Pre-Test Right Occupant Companion View of Non SID

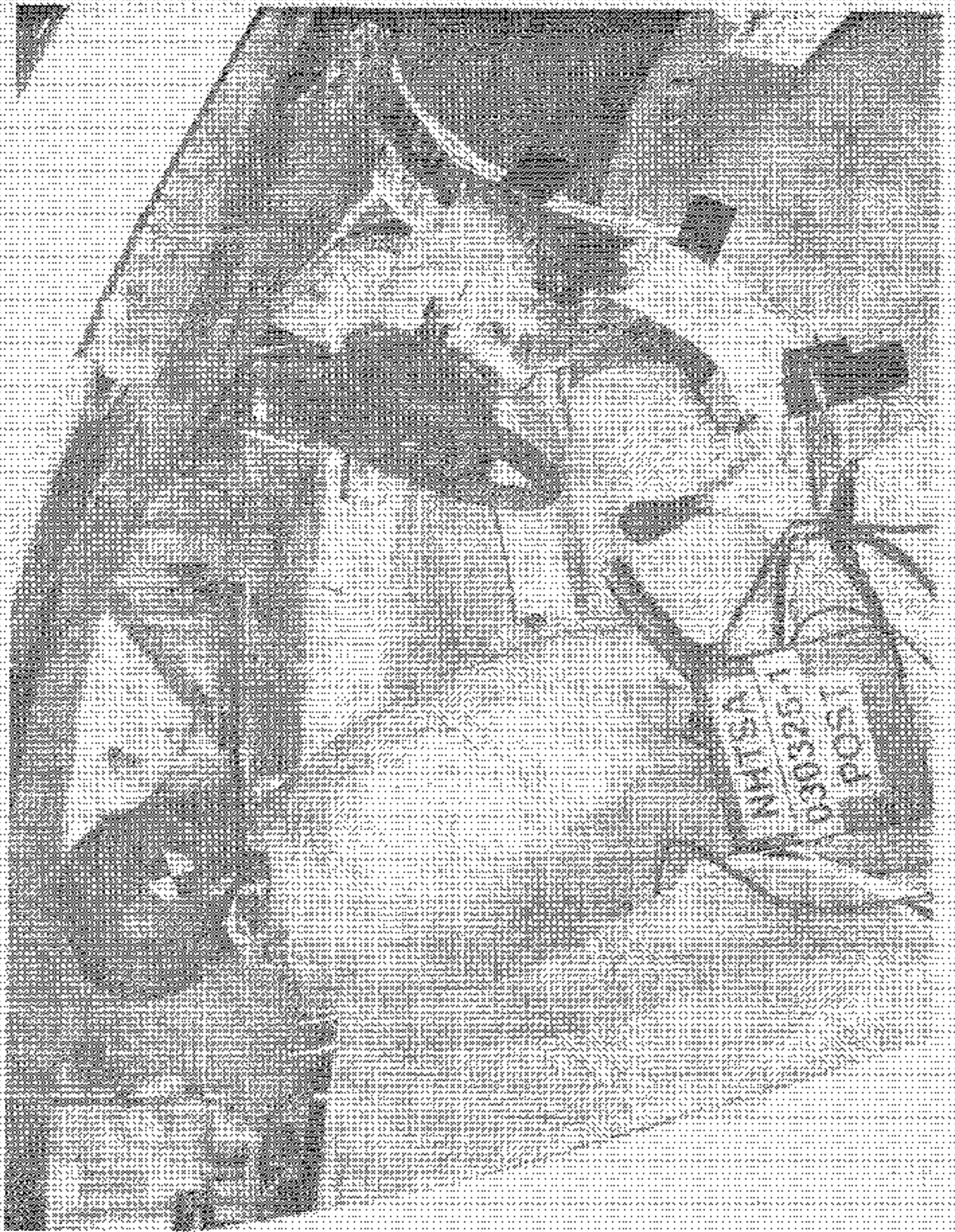


Figure A-20 Post-Test Right Occupant Compartment View of Front SID

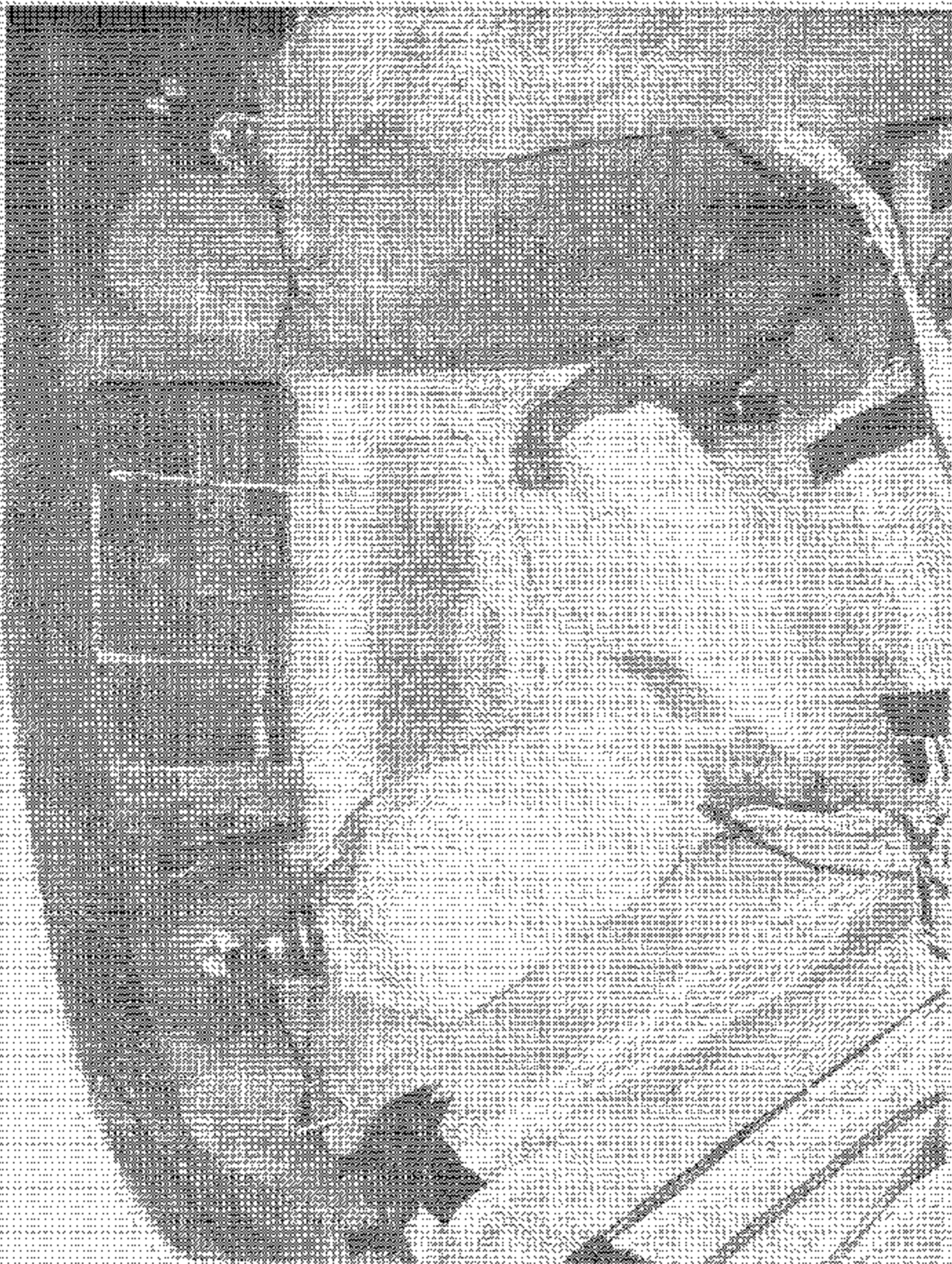


Figure A-2) Pre-Test Right Occupant Compartment View of Rear SID

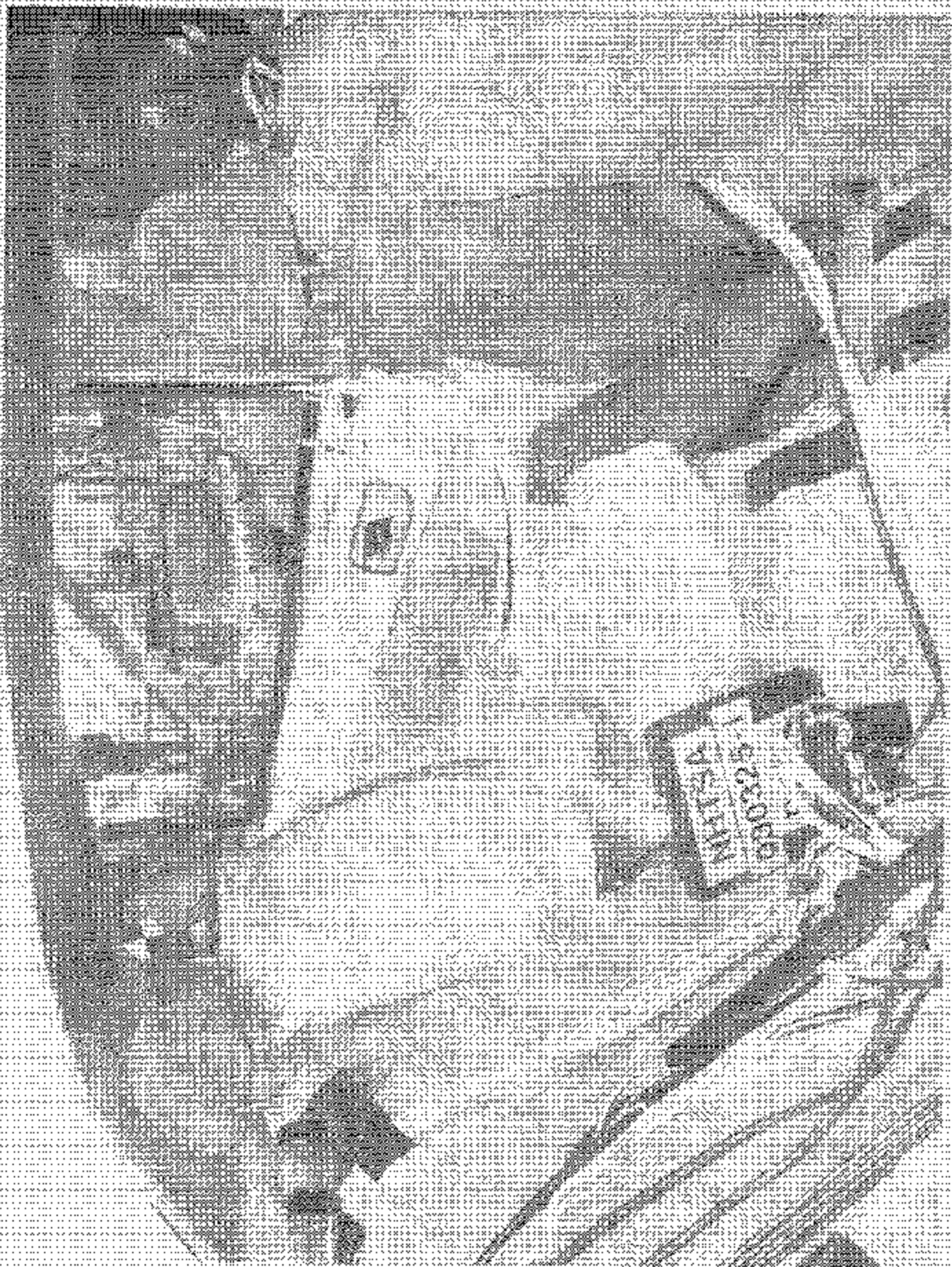


Figure A-22 Post-Test Right Occupant Compartment View of Rear SID

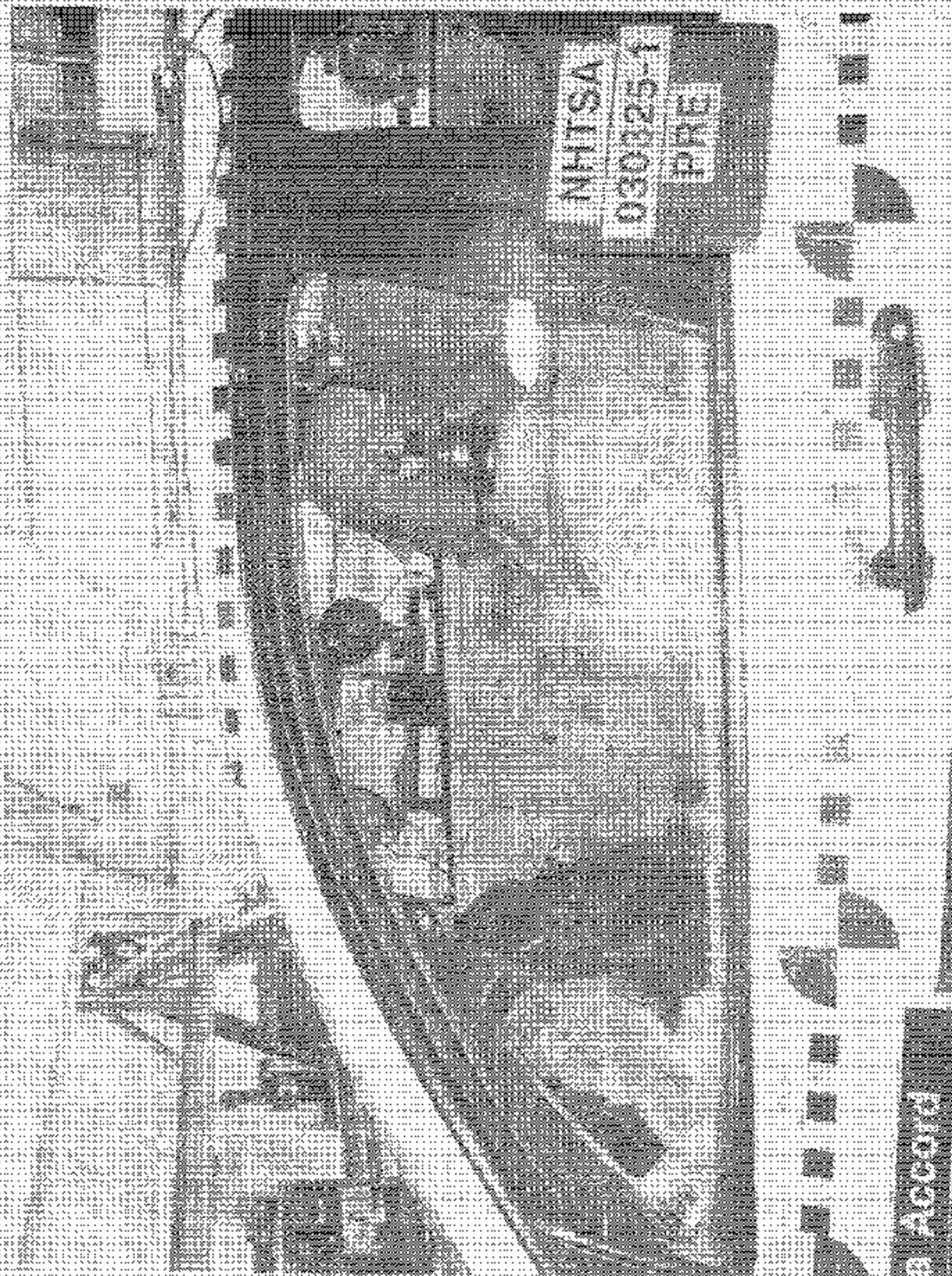


Figure A-23 Pre-Test Left View of Front SID

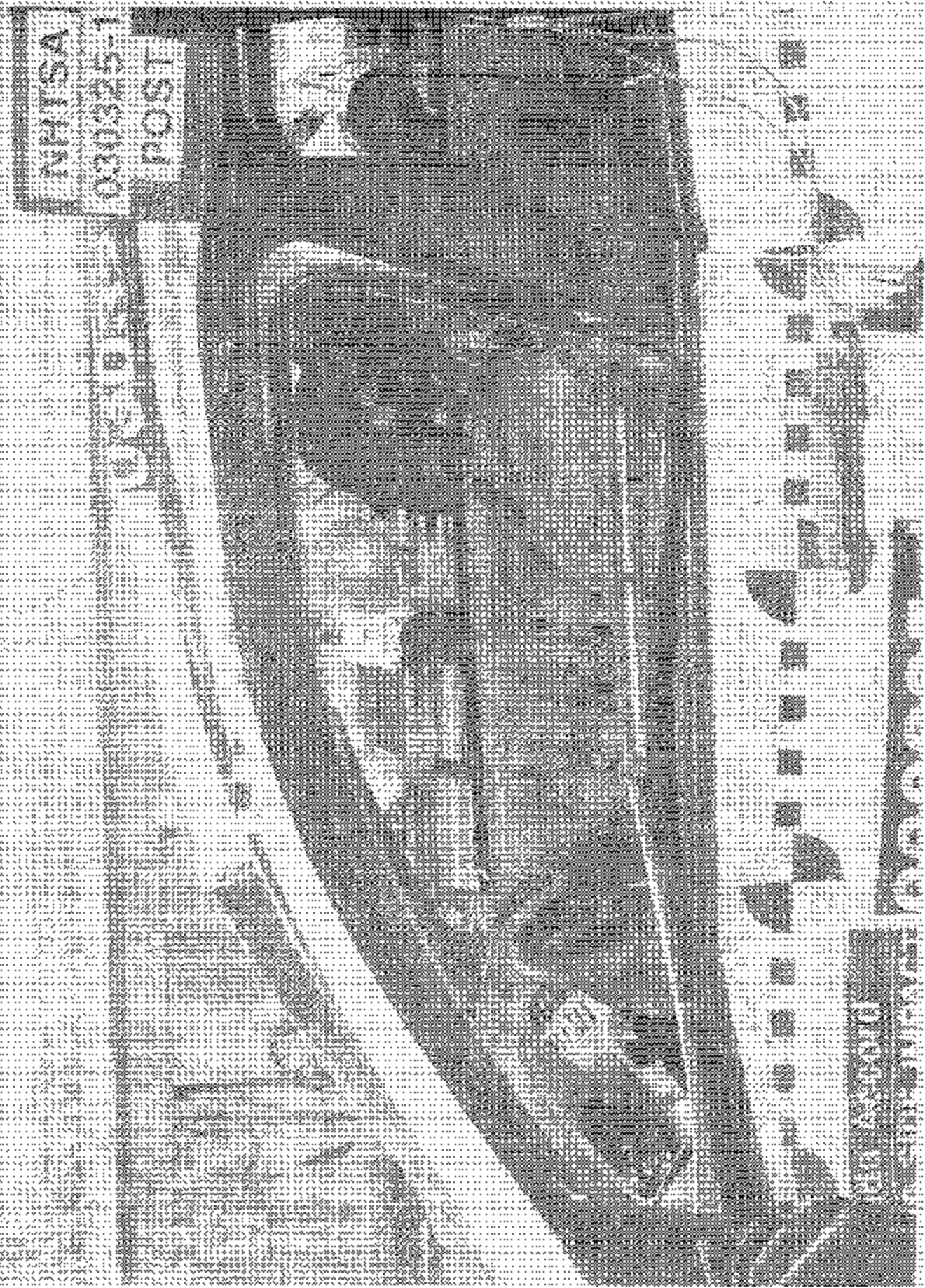


Figure A-24. Post-Test Left View of Front STD

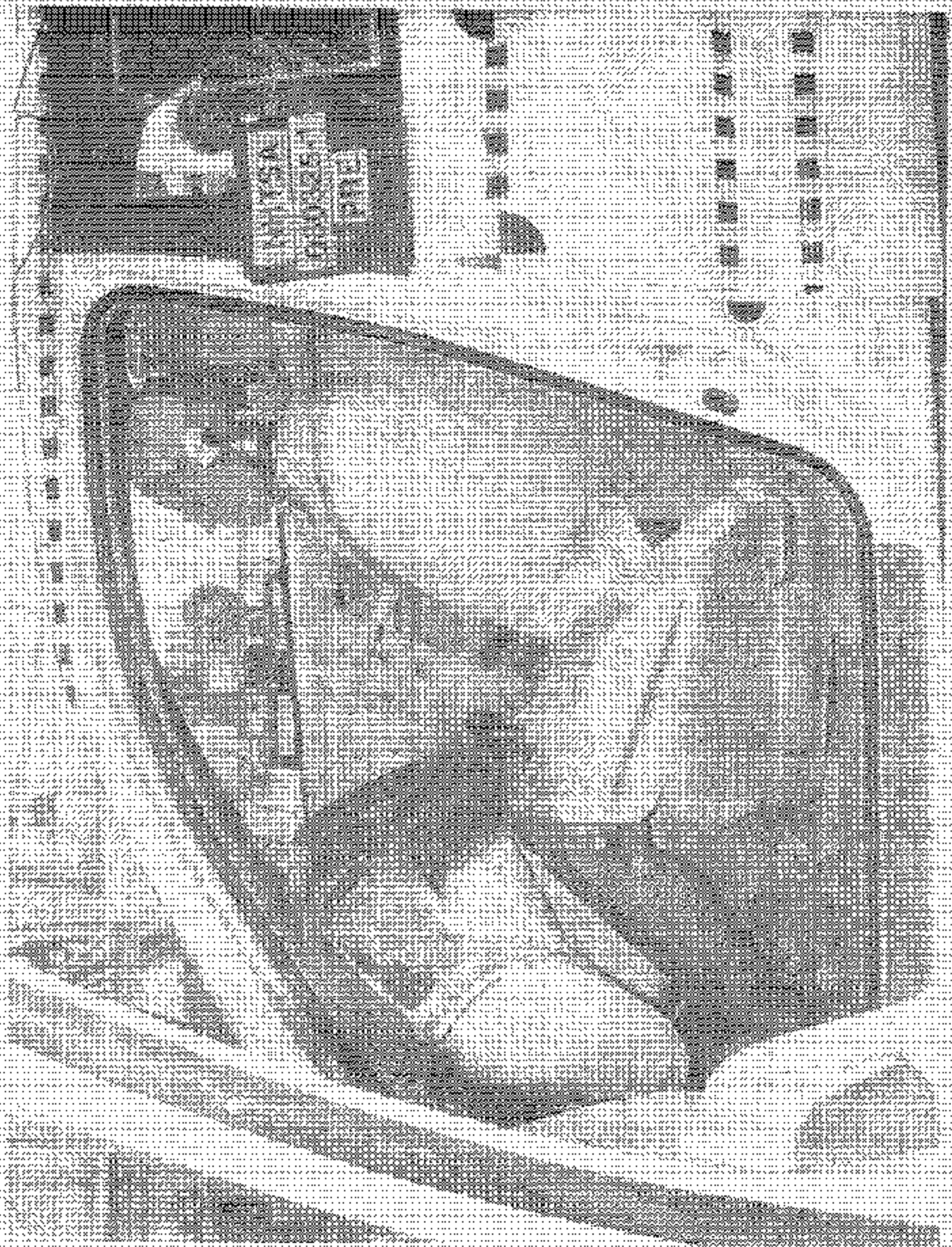


Figure A-25 Pre-Test Left View of Unit SID and Belt Position



Figure A-26 Pre-Test Left View of Front S/D and Door Clearance

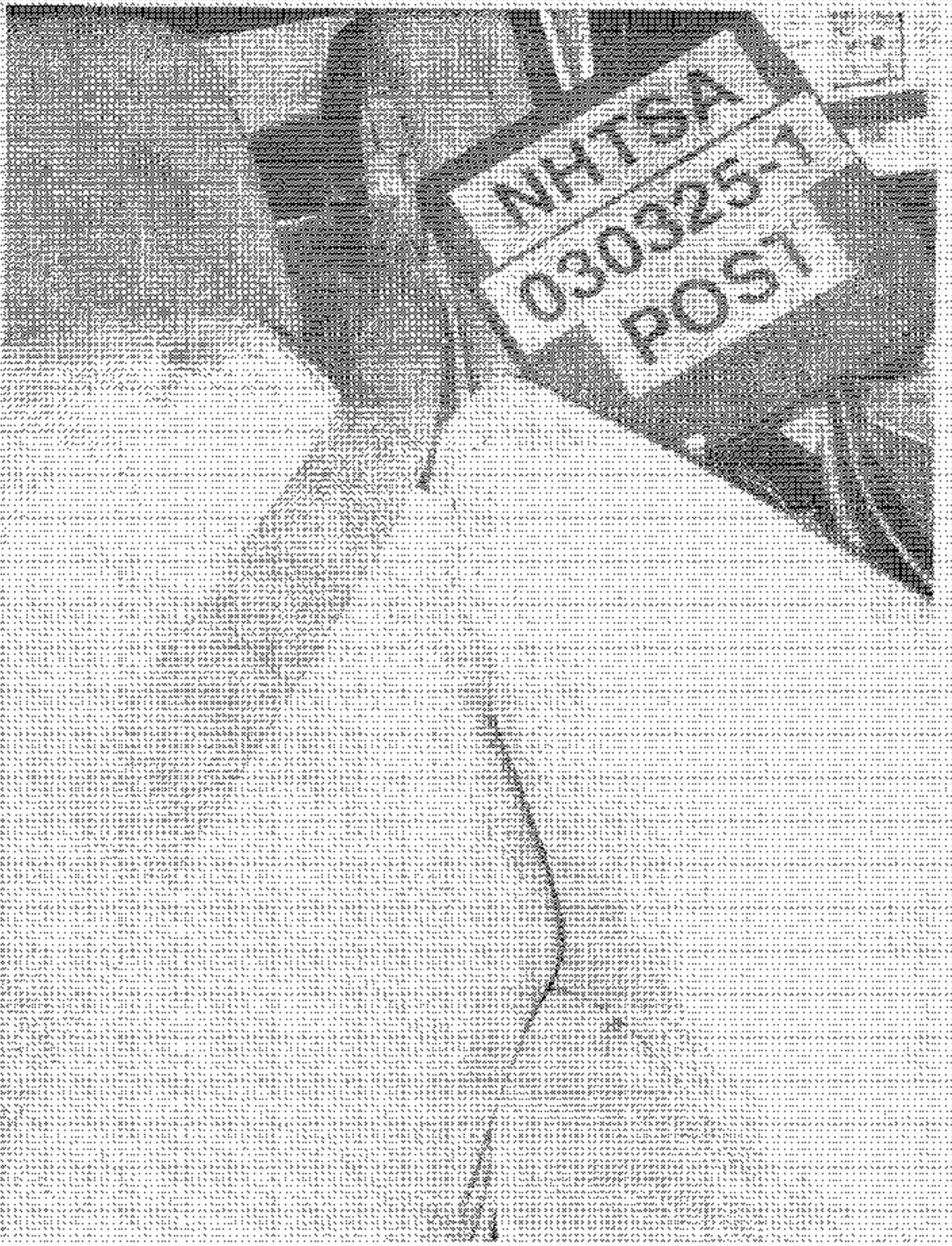


Figure A-27 Post-Test Left View of Front Sill and Door Clearance

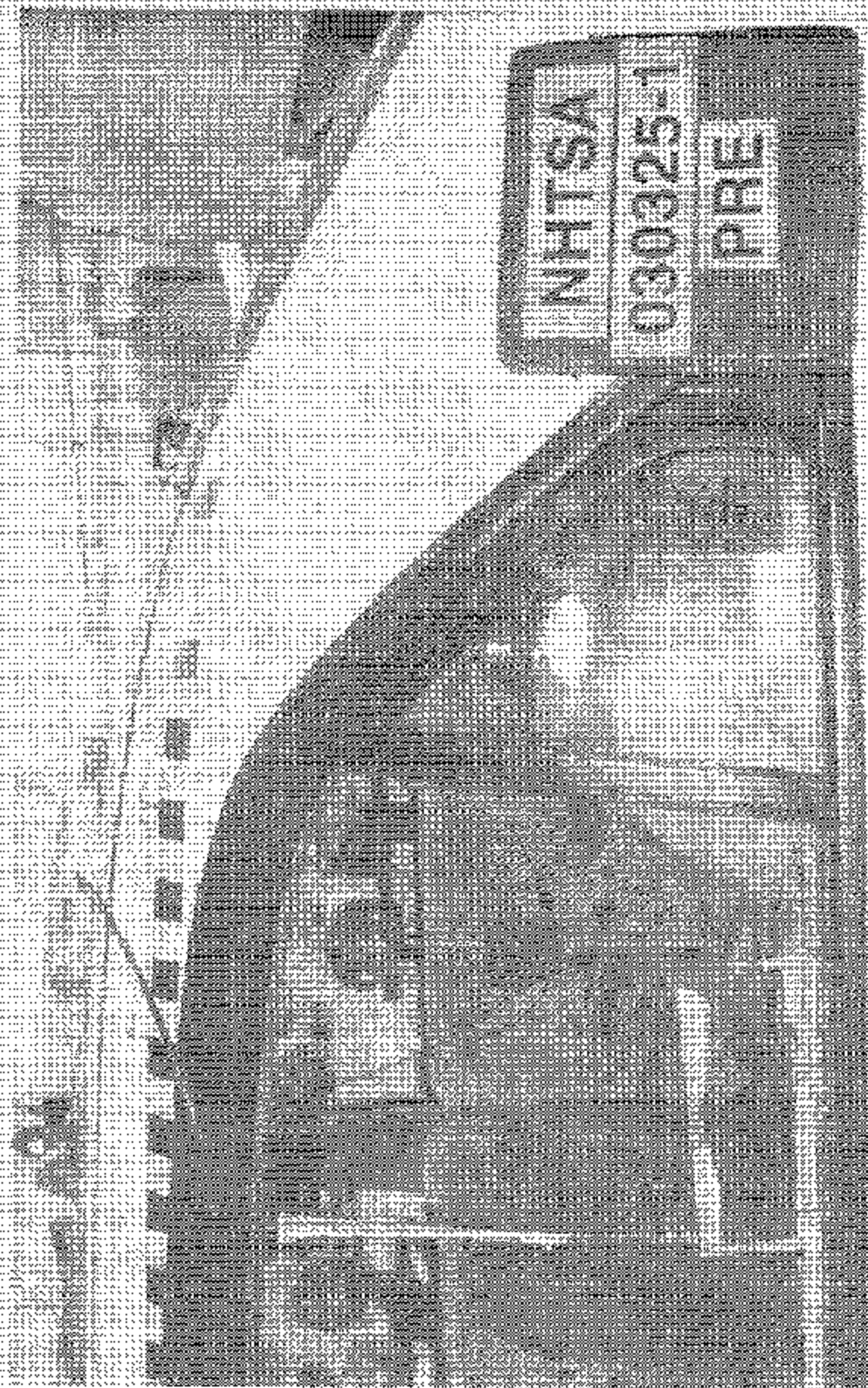


Figure A-28 Pre-Test Left View of Real SID

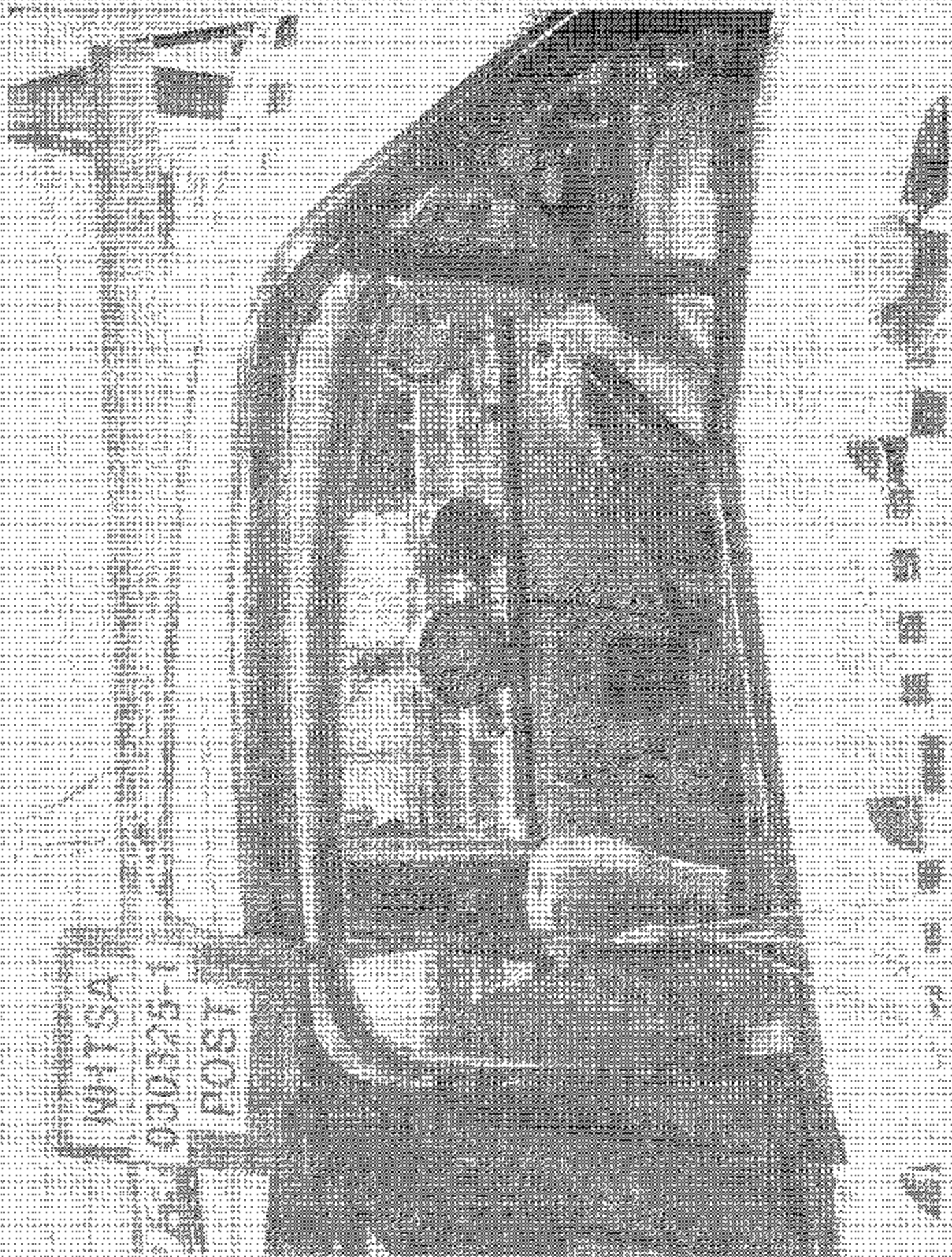


Figure A-29 Post-Test Left View of Rear STD

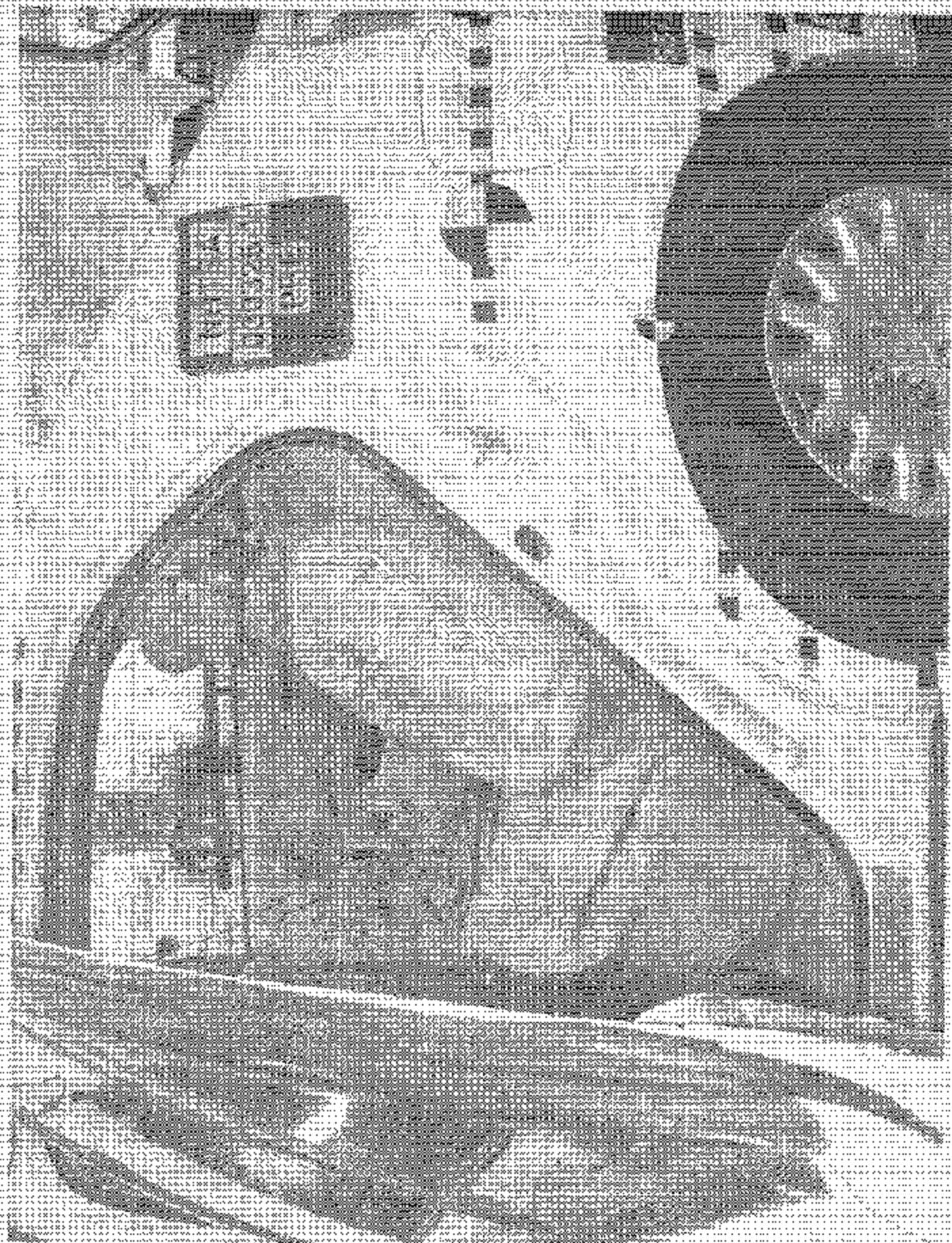


Figure A-10. Pre-Test Loss of Rear SID and Belt Position



Figure A-31 Pre Test Left View of Rear Side and Door Clearance



Figure A-32. Post-Test Left View of Rear SID and Door Clearance

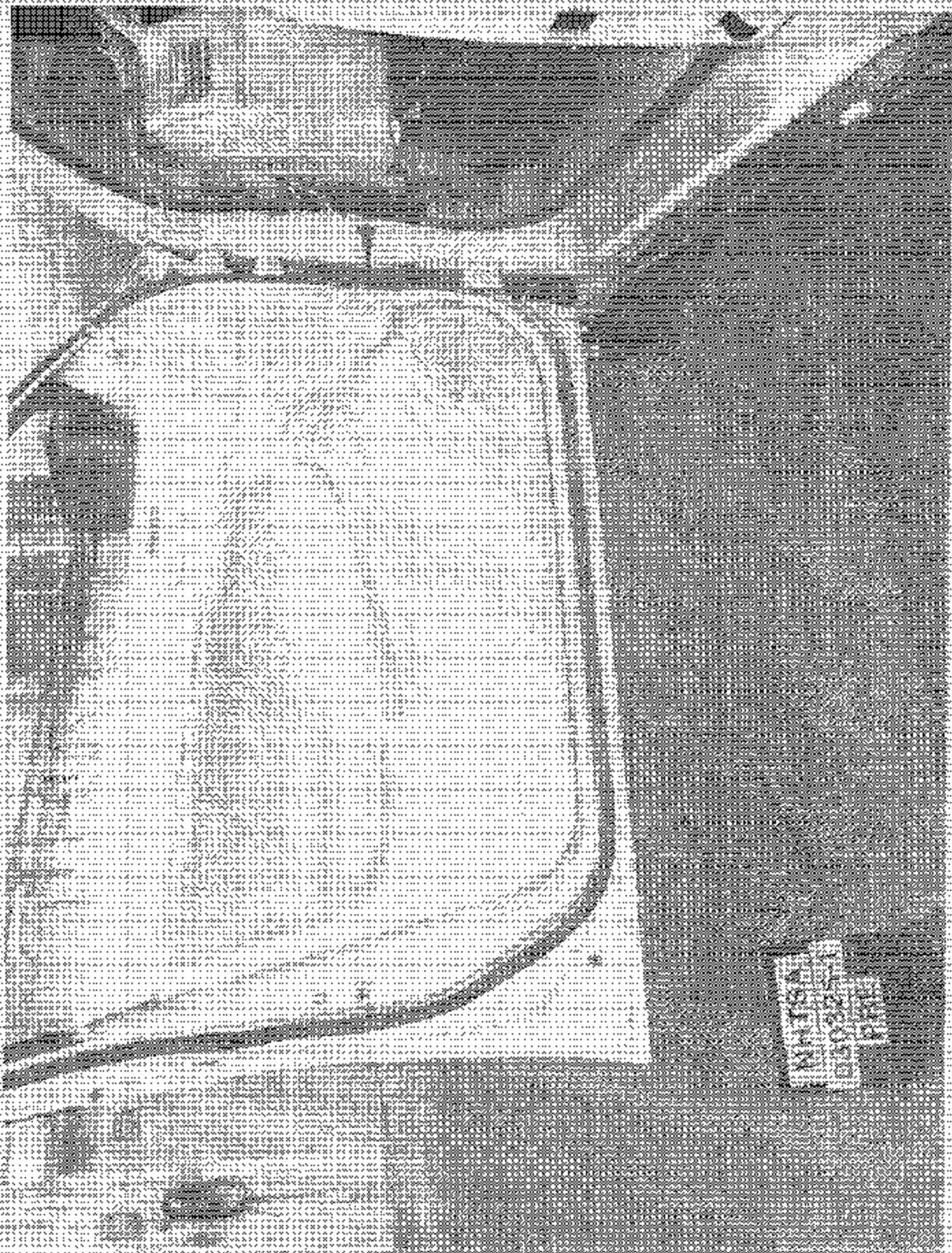


Figure A-31. Pre-Test Interior of Front Door



Figure A-31. Post-Test Interior of Front Door Showing SI Impact Locations



Figure A-35. Post-Test Front SID Camera - View 1

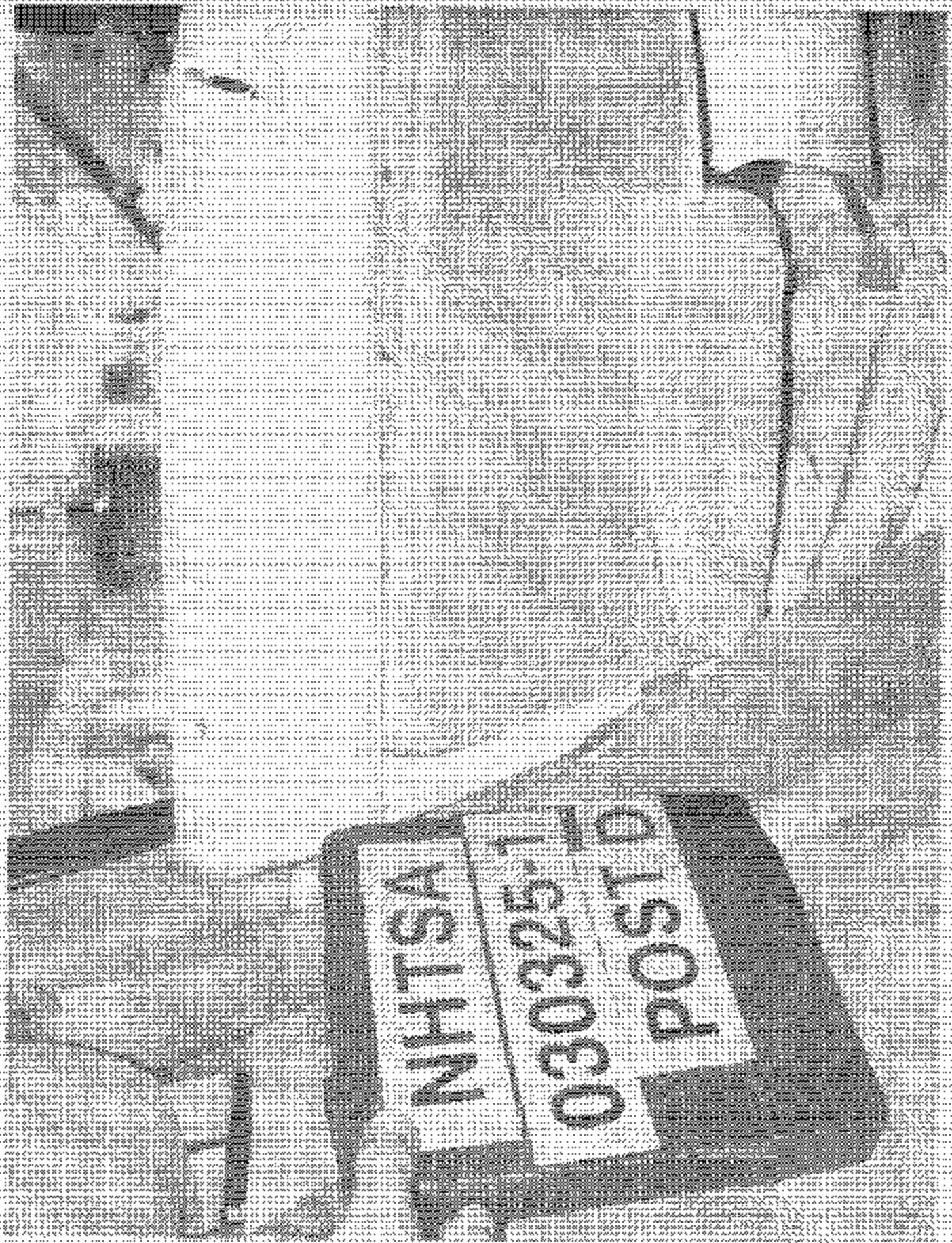


Figure A-36. Post-Test Front SID Contact- View 2



Figure A-17. Post-Test Front Side Camera View 3



Figure A-38 Post-Test Front SID Contact - View 1



Figure A-39 Pre-Test Interior of Rear Door

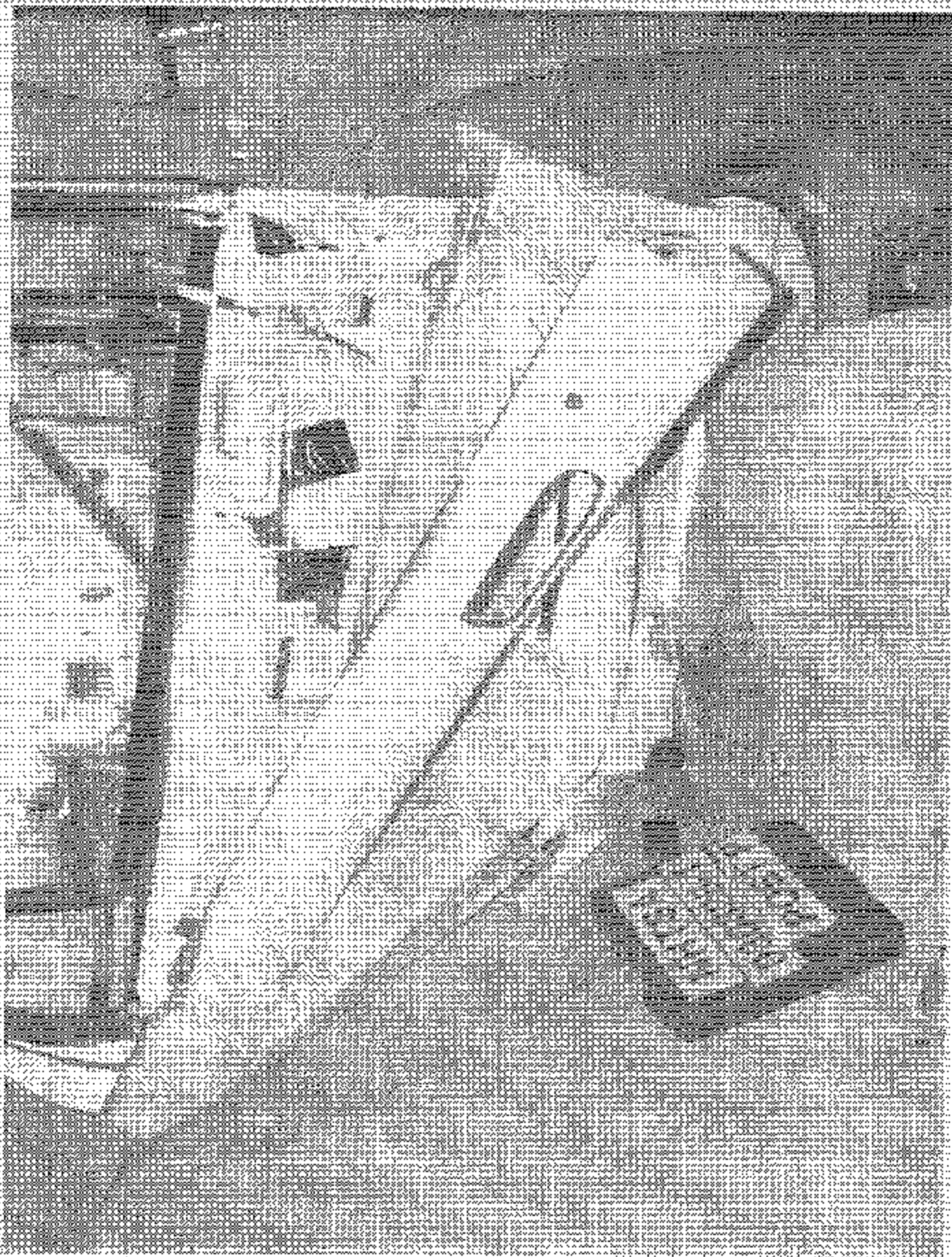


Figure A-10 Post-Test Interior of Rear Door Showing SID Impact Location

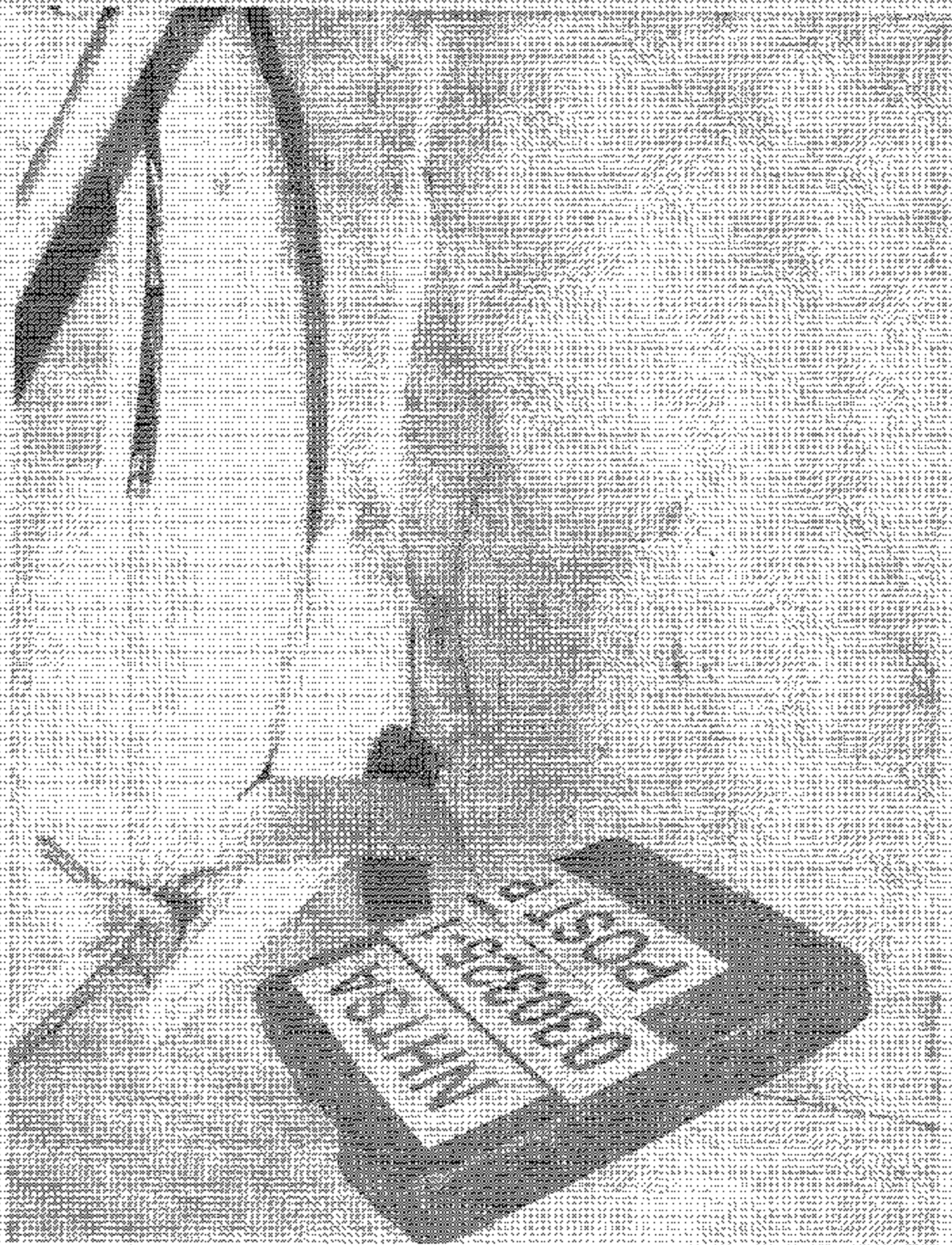


Figure A-41. Post-Test Rear S/D Contact - View 1



Figure A-42: Post-Tax Rear SLD Contact - View 2



Figure A-43. Post-Test Rear SID Camera - View 2

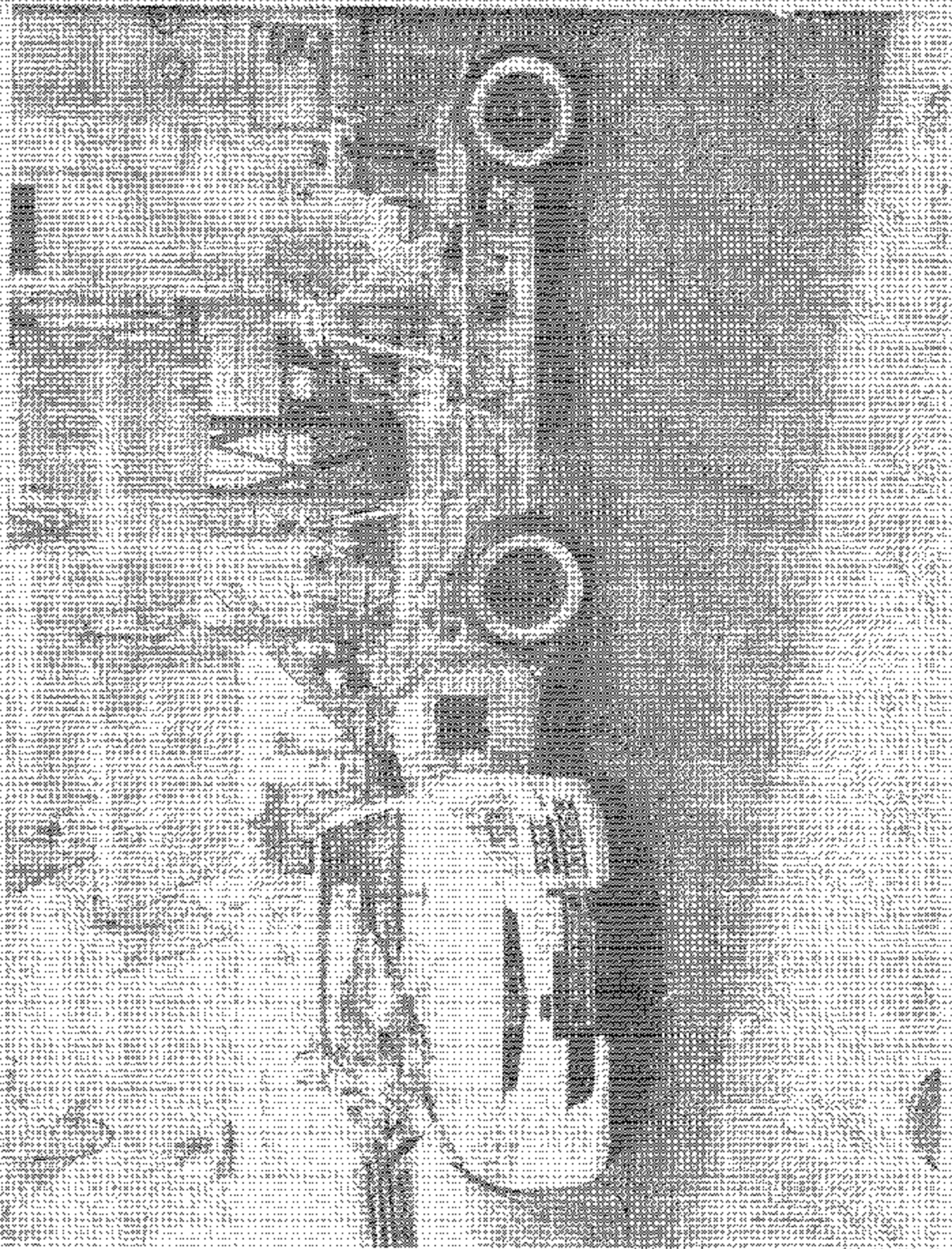


Figure A-11. Pre-Test Left Side View of MDB With Impact Face to Right

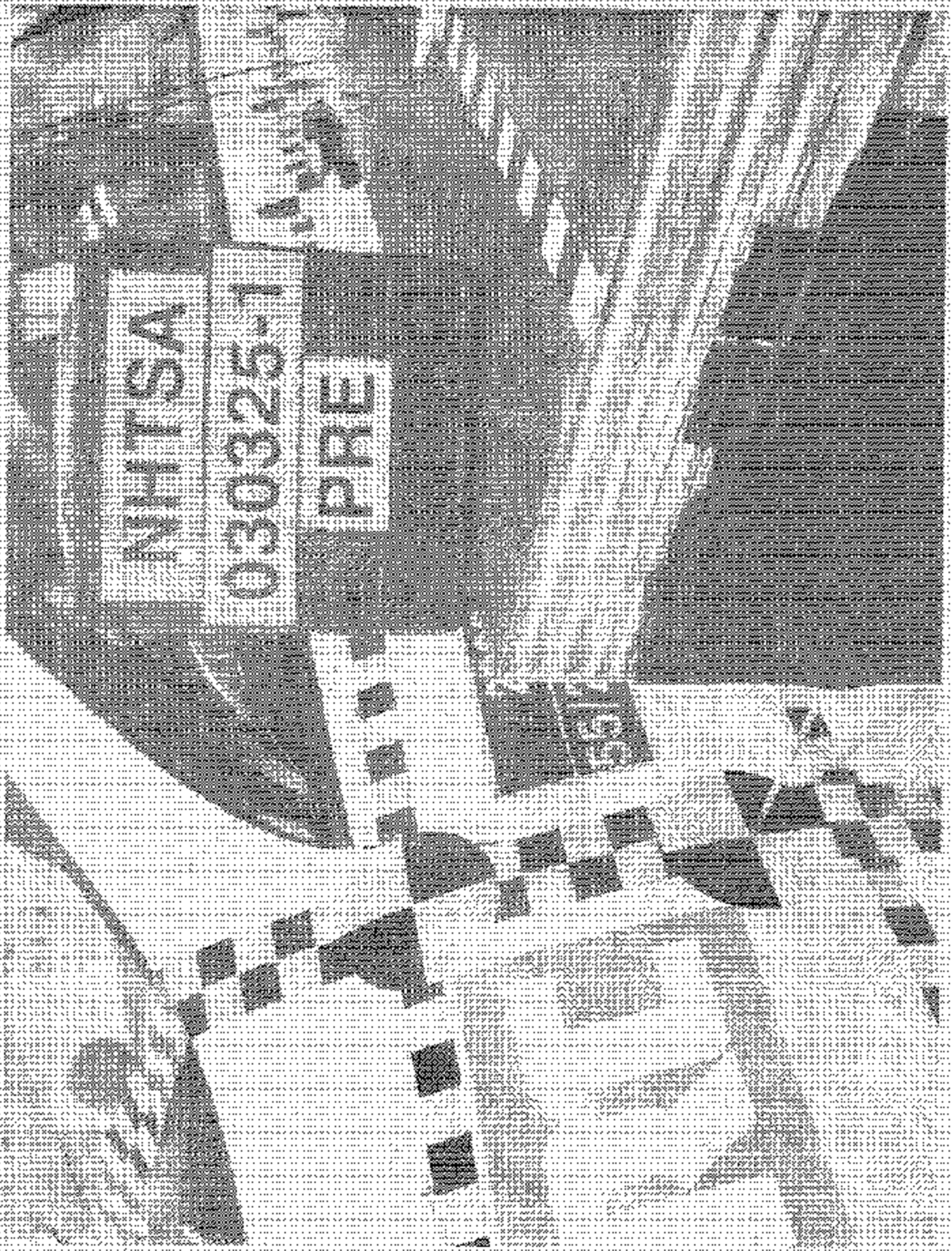


Figure A-15 Pre-Test Primary Impact Point View



Figure A-46: Post-Test Primary Impact Point View

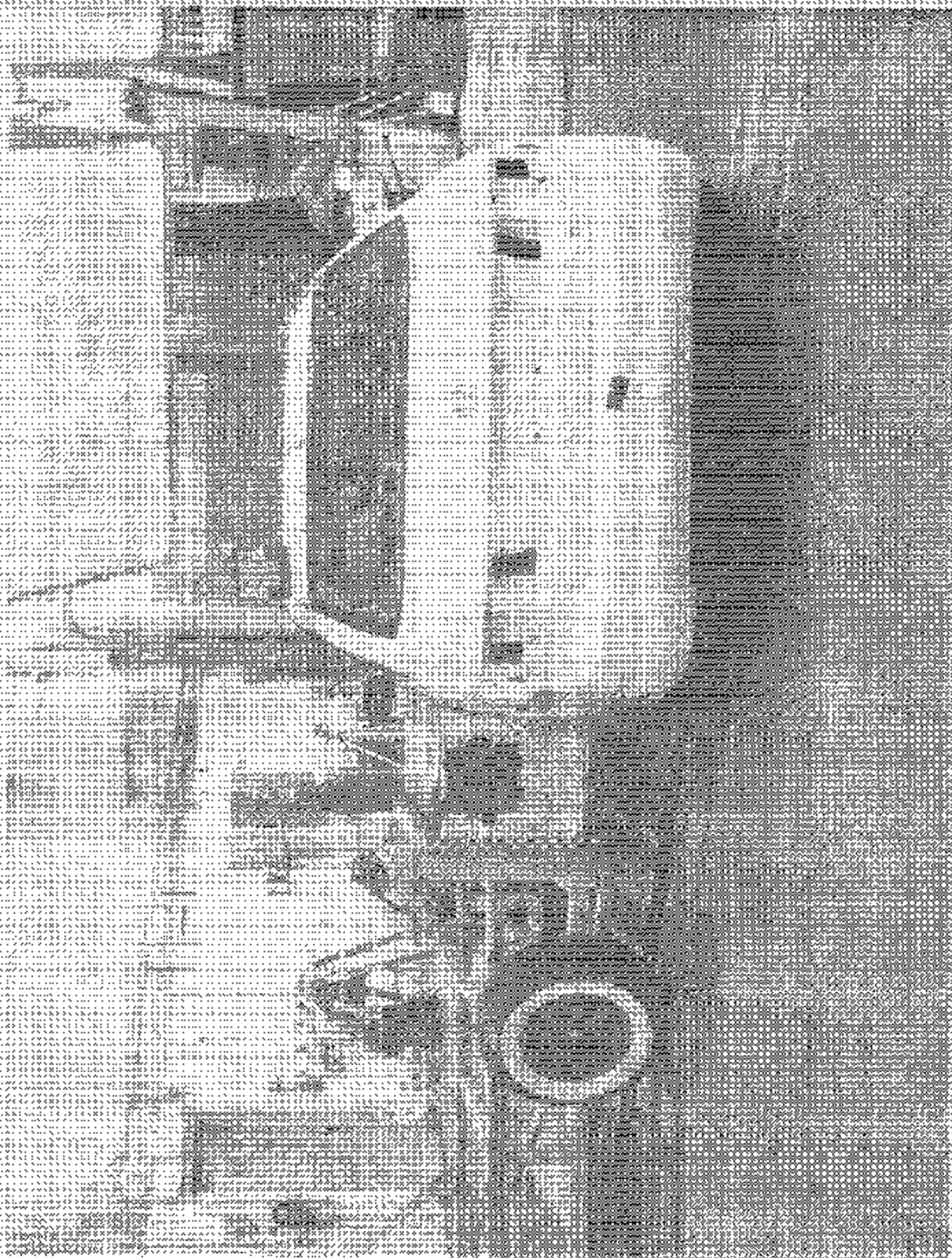


Figure A-47. Pre-Test Right Side View of MVB With Impactor Face in Position



Figure A-48. Pre-Test Secondary Impact Point View

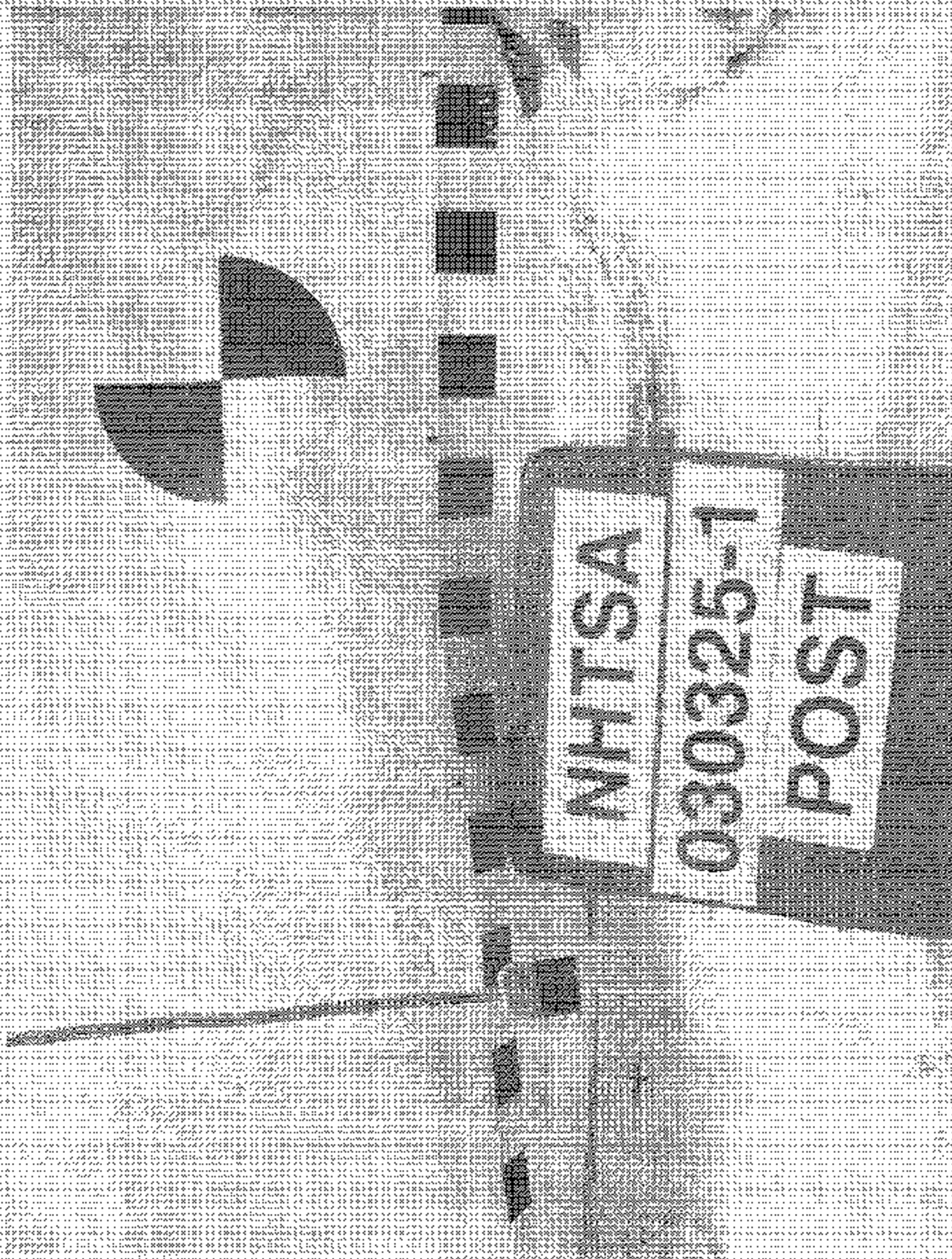


Figure A-9. Post-Test Secondary Impact Point View

MFD. BY HONDA OF AMERICA MFG., INC. 2/03
GVWR 4080LBS GAWR F 2195LBS R 1960LBS
THIS VEHICLE CONFORMS TO ALL APPLICABLE
FEDERAL MOTOR VEHICLE SAFETY, BUMPER,
AND THEFT PREVENTION STANDARDS IN EFFECT
ON THE DATE OF MANUFACTURE SHOWN ABOVE:

V.I.N. 1HGCM55183A057109



PASSENGER CAR

Figure A-50 Pre-Test Vehicle Certification Label View

TIRE INFORMATION

VEHICLE CAPACITY WEIGHT		SEATING CAPACITY	
850 LBS (385KG)		5 FRONT 2 REAR 3	
RECOMMENDED TIRE SIZE COLD TIRE		PRESSURE	
P195/65R15 89H		FRONT 32PSI	
COMPACT SPARE TIRE		REAR 20KPA, 30PSI	
T135/90D15 100M		UP TO VEHICLE CAPACITY WEIGHT	
		420KPA, 60PSI	
		SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION	
		42702-SDA-A010	

Figure A-51 Pre-Test Vehicle Recommended Tire Pressure Label View

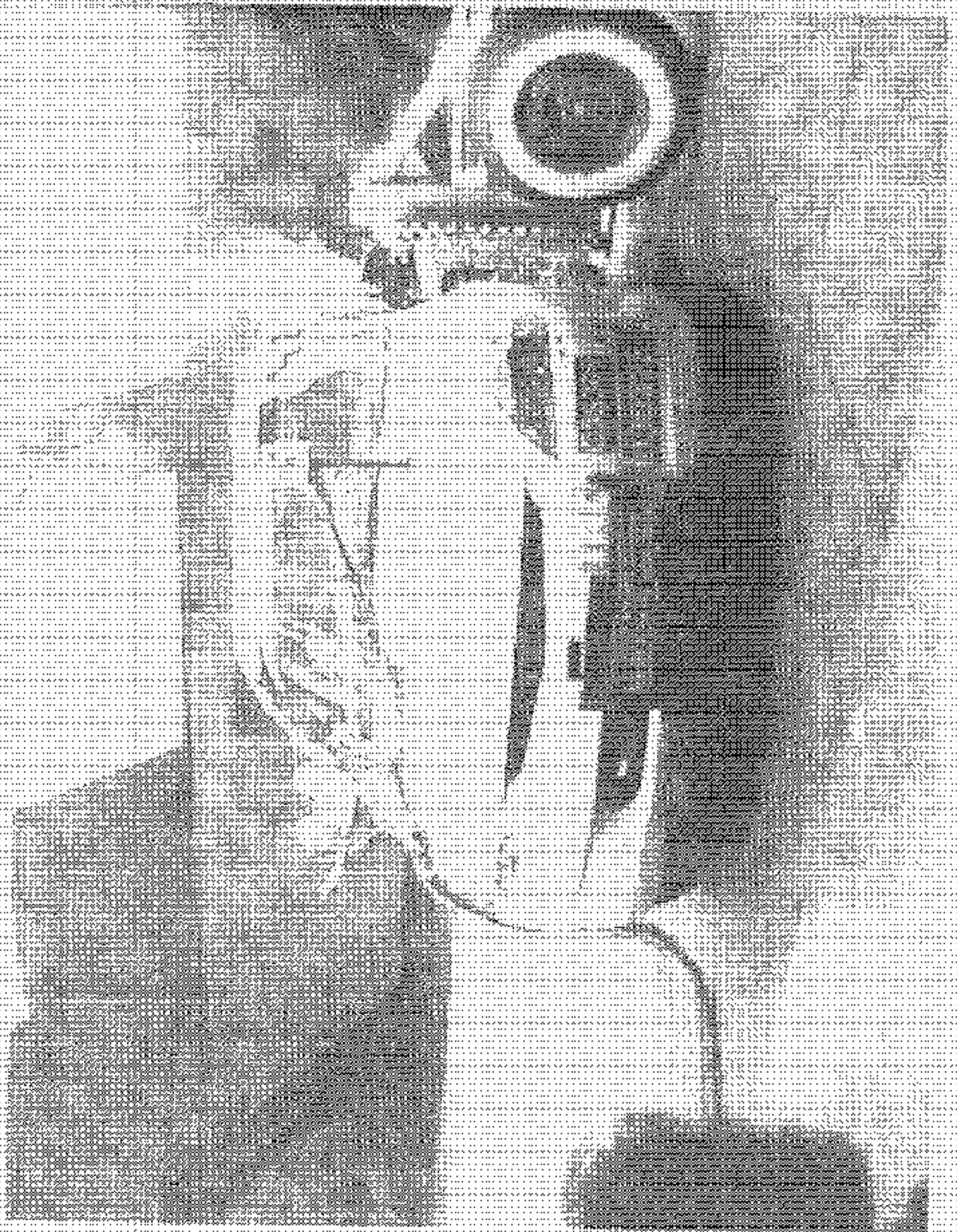


Figure A-52. Impact Event

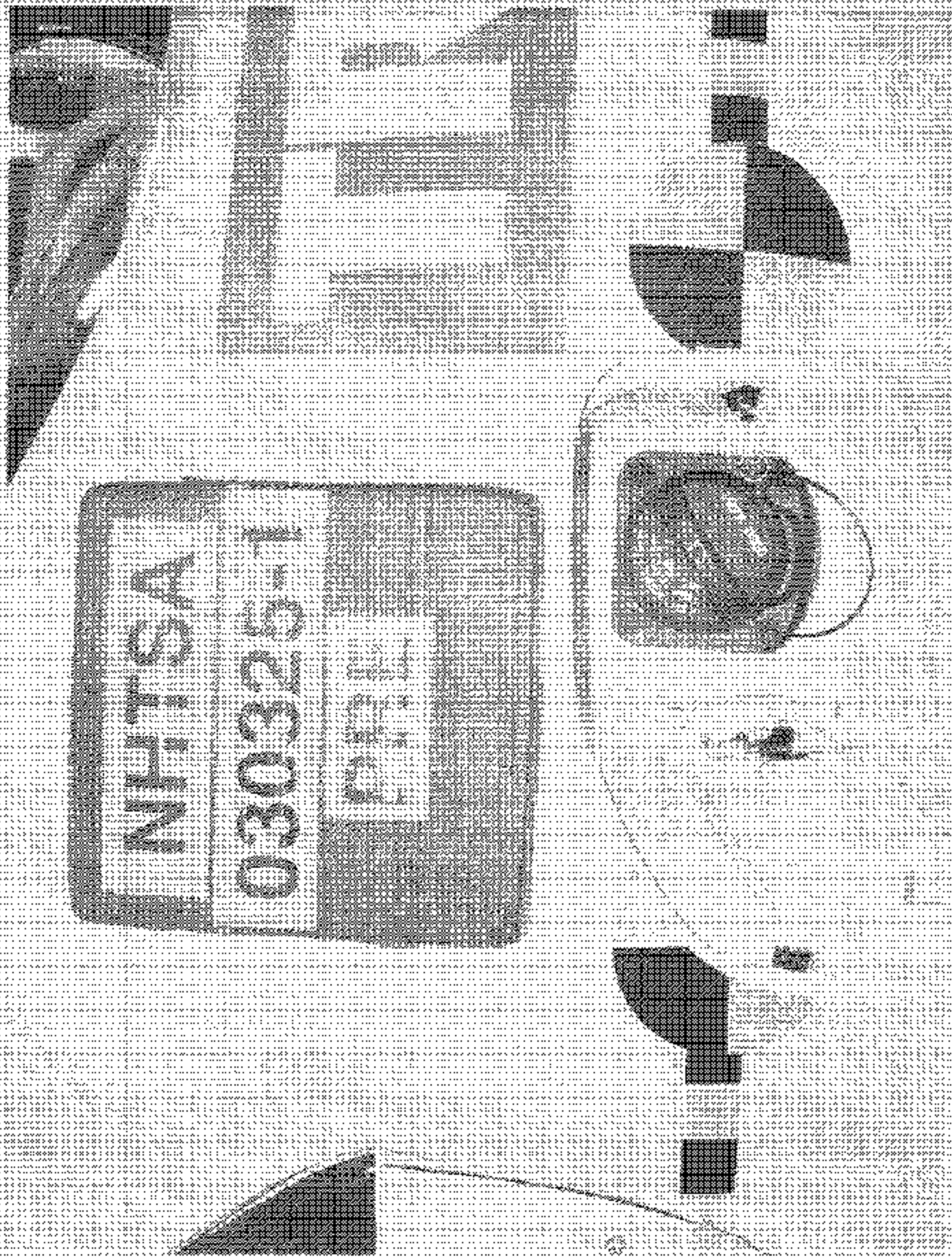


Figure A-53. Pro Test Fuel Can.

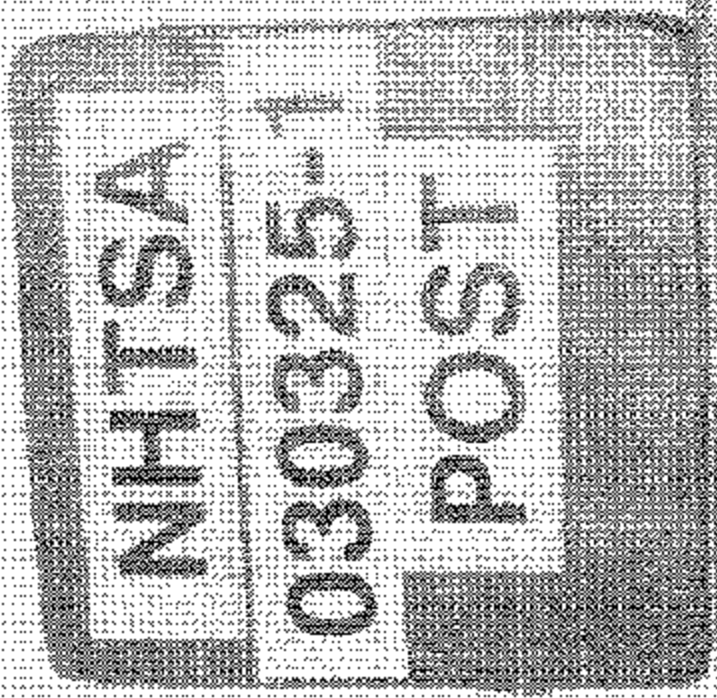


Figure A-54. Post-Test Fuel Cap

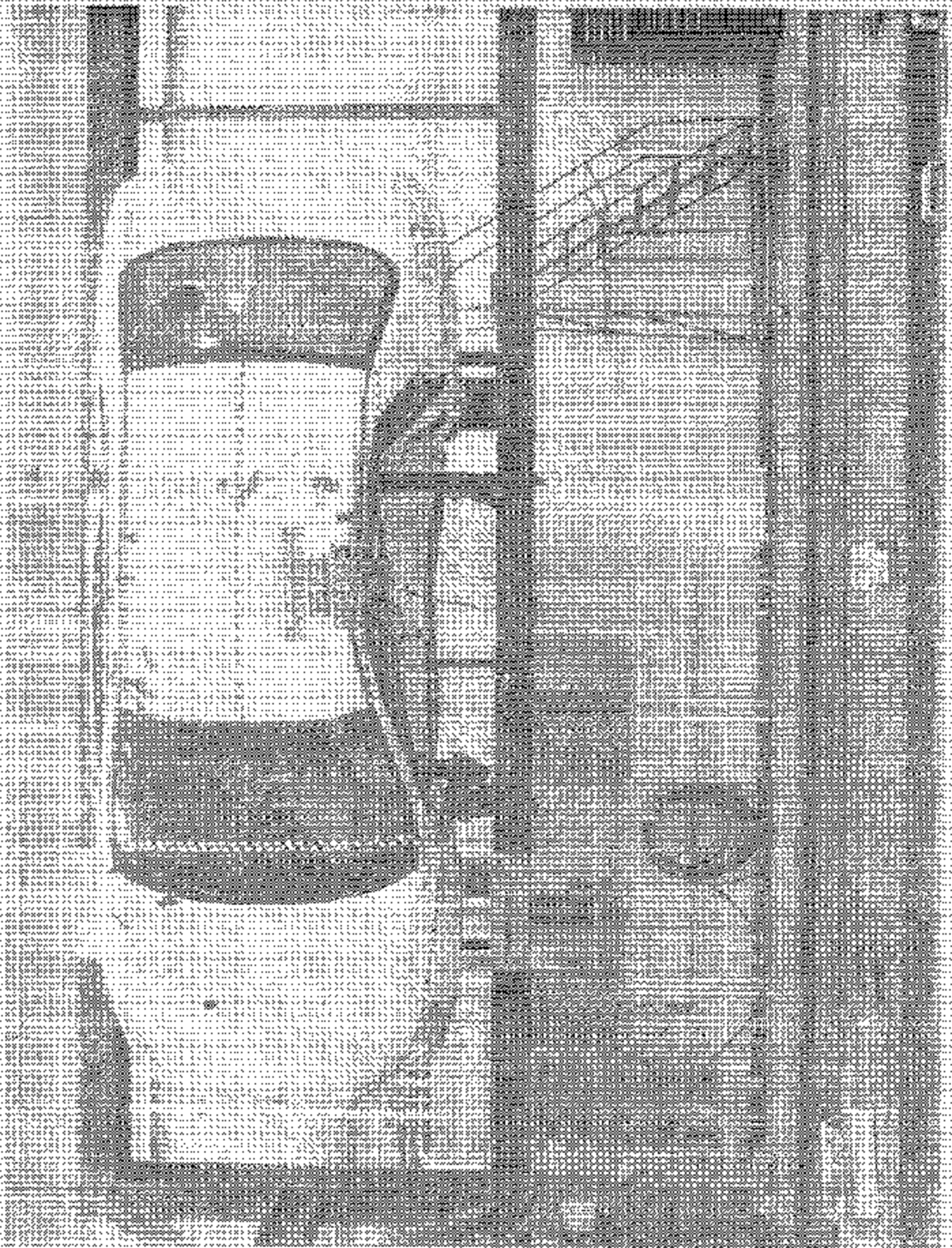


Figure A-25 FMVSS 301 Rollover View at 90°

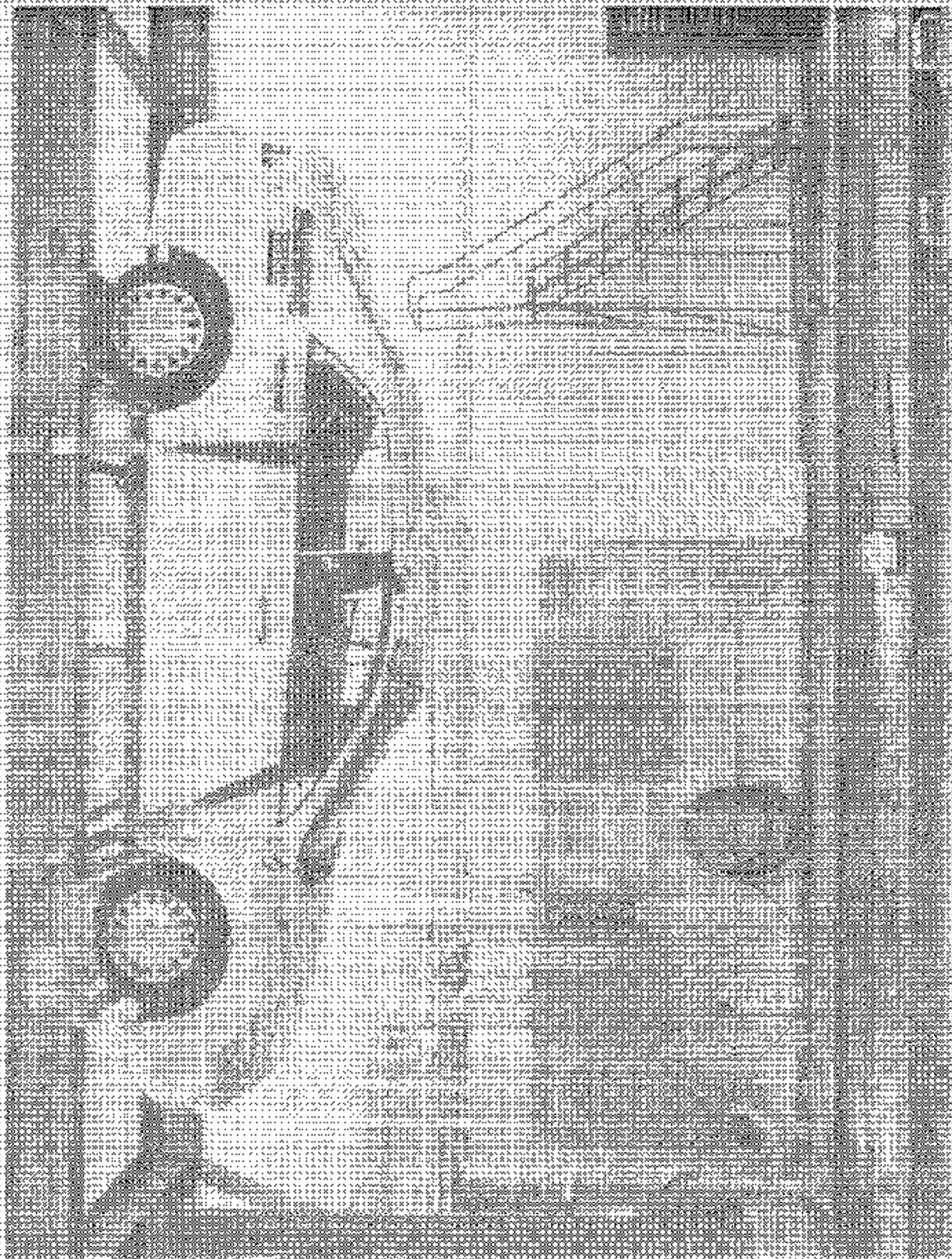


Figure A-26 FMTVSS 501 Roll-over View at 180°

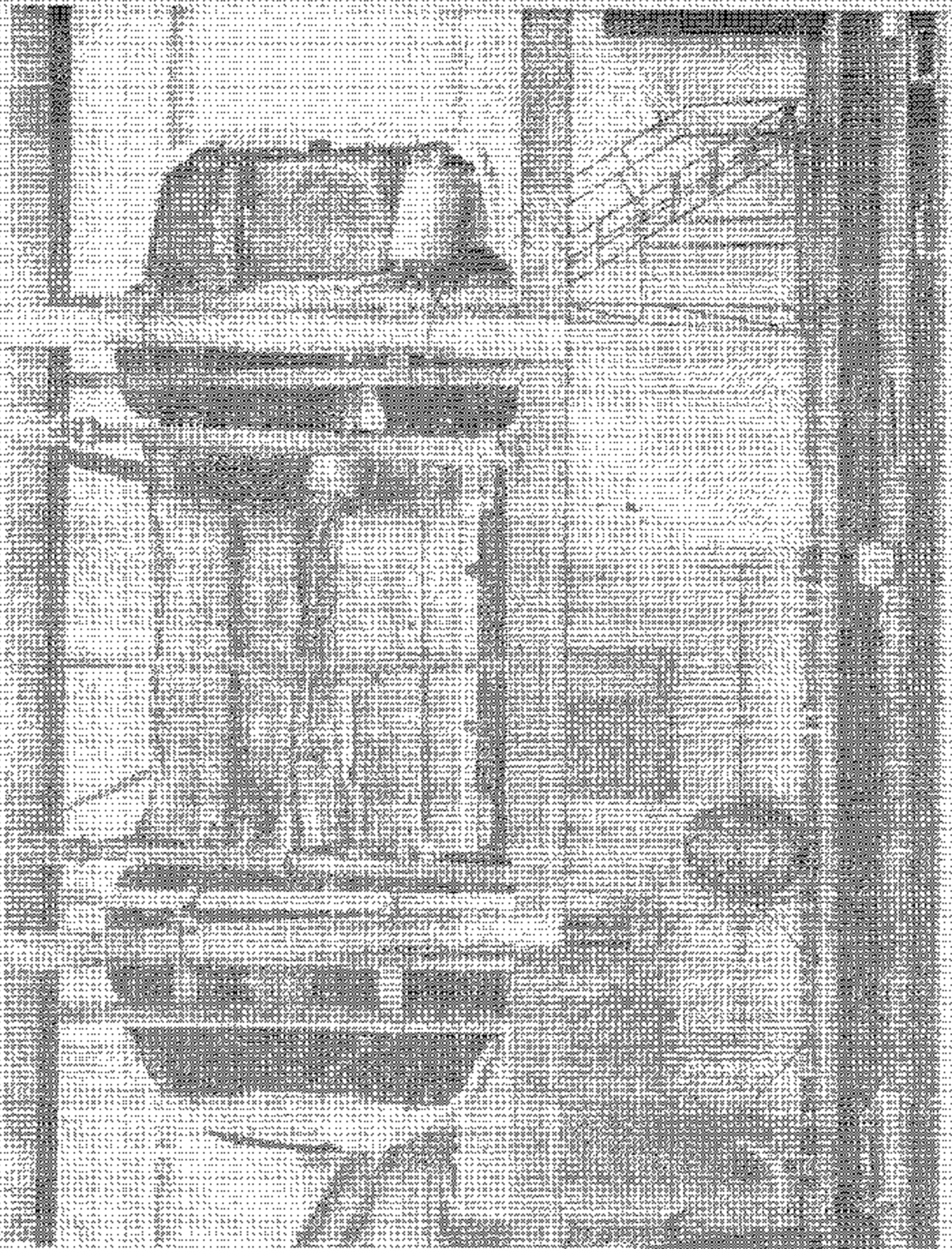


Figure A-57 FMYSS 301 Rollover View at 270°

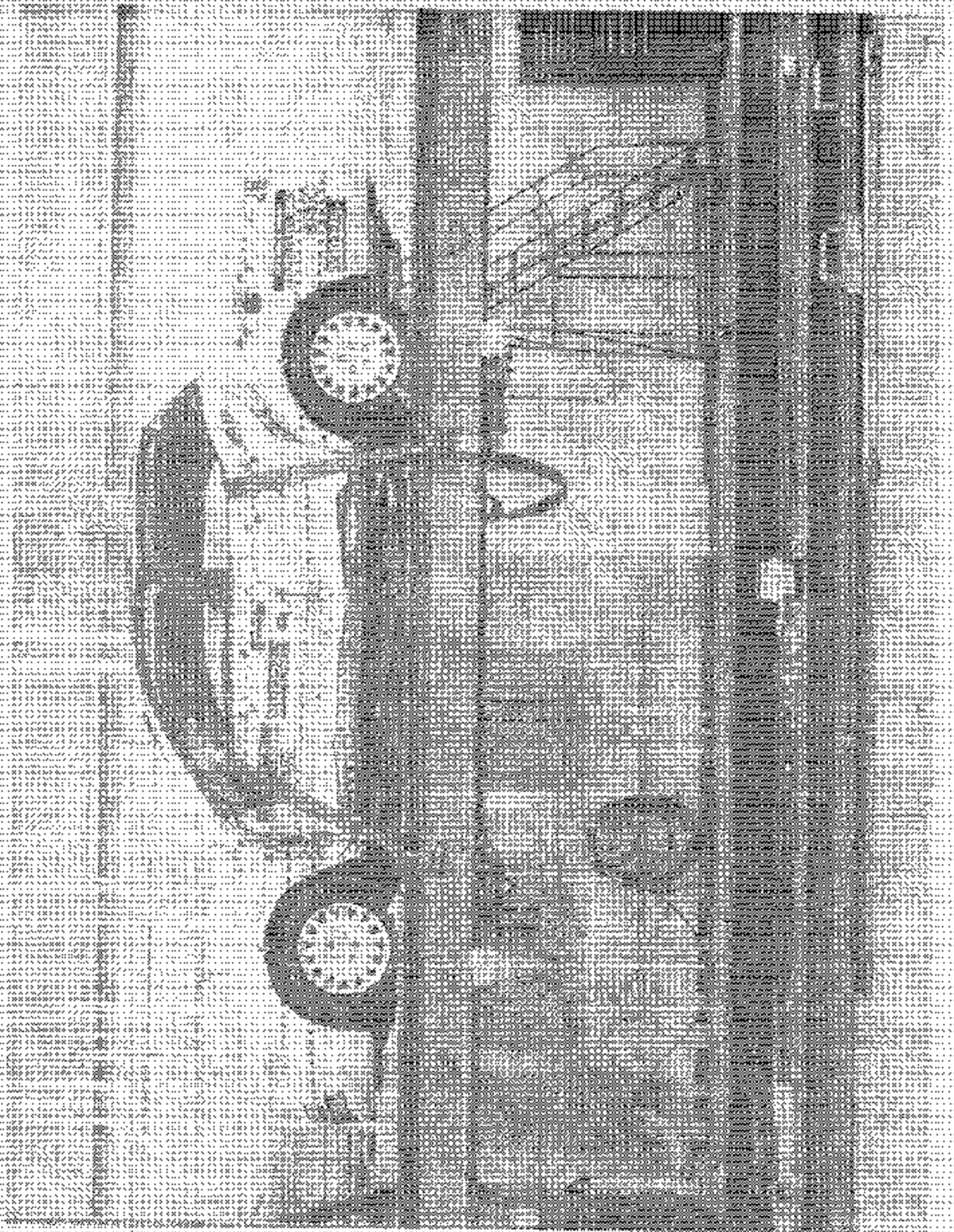


Figure A-58. FMVSS 301 Rollover View at 260°



Figure A-69. Post-Test Rear Door Opening Close-up View

Appendix B

Data Plots

Table of Data Plots

Driver and Passenger Dummy Instrumentation Plots

Acceleration Data - Filter Class 1000

Integration Data - Filter Class 180

Force Data - Filter Class 1000

Moment Data - Filter Class 600

Contact Data - Filter Class 1000

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
1	Driver Head X-Axis Acceleration	B-10
2	Driver Head X-Axis Velocity	B-11
3	Driver Head Y-Axis Acceleration	B-12
4	Driver Head Y-Axis Velocity	B-13
5	Driver Head Z-Axis Acceleration	B-14
6	Driver Head Z-Axis Velocity	B-15
7	Driver Head Resultant Acceleration	B-16
8	Driver Neck X-Axis Shear Force	B-17
9	Driver Neck Y-Axis Shear Force	B-18
10	Driver Neck Z-Axis Axial Force	B-19
11	Driver Neck Moment about X Axis	B-20
12	Driver Neck Moment about Y Axis	B-21
13	Driver Neck Moment about Z Axis	B-22
14	Driver Neck Occipital Condyle Moment about X Axis	B-23
15	Driver Upper Rib Y-Axis Acceleration	B-24
16	Driver Upper Rib Y-Axis Velocity	B-25
17	Driver Lower Rib Y-Axis Acceleration	B-26
18	Driver Lower Rib Y-Axis Velocity	B-27
19	Driver Lower Spine Y-Axis Acceleration	B-28
20	Driver Lower Spine Y-Axis Velocity	B-29
21	Driver Pelvis Y-Axis Acceleration	B-30
22	Driver Pelvis Y-Axis Velocity	B-31
23	Left Rear Passenger Head X-Axis Acceleration	B-32
24	Left Rear Passenger Head X-Axis Velocity	B-33
25	Left Rear Passenger Head Y-Axis Acceleration	B-34
26	Left Rear Passenger Head Y-Axis Velocity	B-35
27	Left Rear Passenger Head Z-Axis Acceleration	B-36

Table of Data Plots (Continued)

Driver and Passenger Dummy Instrumentation Plots (Continued)

Acceleration Data - Filter Class 1000

Integration Data - Filter Class 180

Force Data - Filter Class 1000

Moment Data - Filter Class 600

Contact Data - Filter Class 1000

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
28	Left Rear Passenger Head Z-Axis Velocity	B-37
29	Left Rear Passenger Head Resultant Acceleration	B-38
30	Left Rear Passenger Neck X-Axis Shear Force	B-39
31	Left Rear Passenger Neck Y-Axis Shear Force	B-40
32	Left Rear Passenger Neck Z-Axis Axial Force	B-41
33	Left Rear Passenger Neck Moment about X Axis	B-42
34	Left Rear Passenger Neck Moment about Y Axis	B-43
35	Left Rear Passenger Neck Moment about Z Axis	B-44
36	Left Rear Passenger Neck Occipital Condyle Moment about X Axis	B-45
37	Left Rear Passenger Upper Rib Y-Axis Acceleration	B-46
38	Left Rear Passenger Upper Rib Y-Axis Velocity	B-47
39	Left Rear Passenger Lower Rib Y-Axis Acceleration	B-48
40	Left Rear Passenger Lower Rib Y-Axis Velocity	B-49
41	Left Rear Passenger Lower Spine Y-Axis Acceleration	B-50
42	Left Rear Passenger Lower Spine Y-Axis Velocity	B-51
43	Left Rear Passenger Pelvis Y-Axis Acceleration	B-52
44	Left Rear Passenger Pelvis Y-Axis Velocity	B-53

Driver and Passenger Dummy Instrumentation Plots

Acceleration Data - Filter Class 1000 - Redundant

Integration Data - Filter Class 180 - Redundant

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
45	Driver Head X-Axis Redundant Acceleration	B-55
46	Driver Head X-Axis Redundant Velocity	B-56
47	Driver Head Y-Axis Redundant Acceleration	B-57
48	Driver Head Y-Axis Redundant Velocity	B-58

Table of Data Plots (Continued)

Driver and Passenger Dummy Instrumentation Plots (Continued)

Acceleration Data - Filter Class 1000 - Redundant

Integration Data - Filter Class 180 - Redundant

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
49	Driver Head Z-Axis Redundant Acceleration	B-59
50	Driver Head Z-Axis Redundant Velocity	B-60
51	Driver Upper Rib Y-Axis Redundant Acceleration	B-61
52	Driver Upper Rib Y-Axis Redundant Velocity	B-62
53	Driver Lower Rib Y-Axis Redundant Acceleration	B-63
54	Driver Lower Rib Y-Axis Redundant Velocity	B-64
55	Driver Lower Spine Y-Axis Redundant Acceleration	B-65
56	Driver Lower Spine Y-Axis Redundant Velocity	B-66
57	Driver Pelvis Y-Axis Redundant Acceleration	B-67
58	Driver Pelvis Y-Axis Redundant Velocity	B-68
59	Left Rear Passenger Head X-Axis Redundant Acceleration	B-69
60	Left Rear Passenger Head X-Axis Redundant Velocity	B-70
61	Left Rear Passenger Head Y-Axis Redundant Acceleration	B-71
62	Left Rear Passenger Head Y-Axis Redundant Velocity	B-72
63	Left Rear Passenger Head Z-Axis Redundant Acceleration	B-73
64	Left Rear Passenger Head Z-Axis Redundant Velocity	B-74
65	Left Rear Passenger Upper Rib Y-Axis Redundant Acceleration	B-75
66	Left Rear Passenger Upper Rib Y-Axis Redundant Velocity	B-76
67	Left Rear Passenger Lower Rib Y-Axis Redundant Acceleration	B-77
68	Left Rear Passenger Lower Rib Y-Axis Redundant Velocity	B-78
69	Left Rear Passenger Lower Spine Y-Axis Redundant Acceleration	B-79
70	Left Rear Passenger Lower Spine Y-Axis Redundant Velocity	B-80
71	Left Rear Passenger Pelvis Y-Axis Redundant Acceleration	B-81
72	Left Rear Passenger Pelvis Y-Axis Redundant Velocity	B-82

Table of Data Plots (Continued)
 Test Vehicle Instrumentation Plots
 Acceleration Data - Filter Class 60
 Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
73	Right Side Sill at Front Seat X-Axis Acceleration	B-84
74	Right Side Sill at Front Seat X-Axis Velocity	B-85
75	Right Side Sill at Front Seat Y-Axis Acceleration	B-86
76	Right Side Sill at Front Seat Y-Axis Velocity	B-87
77	Right Side Sill at Front Seat Z-Axis Acceleration	B-88
78	Right Side Sill at Front Seat Z-Axis Velocity	B-89
79	Right Side Sill at Front Seat Resultant Acceleration	B-90
80	Right Side Sill at Rear Seat X-Axis Acceleration	B-91
81	Right Side Sill at Rear Seat X-Axis Velocity	B-92
82	Right Side Sill at Rear Seat Y-Axis Acceleration	B-93
83	Right Side Sill at Rear Seat Y-Axis Velocity	B-94
84	Right Side Sill at Rear Seat Z-Axis Acceleration	B-95
85	Right Side Sill at Rear Seat Z-Axis Velocity	B-96
86	Right Side Sill at Rear Seat Resultant Acceleration	B-97
87	Rear Floorpan Above Axle X-Axis Acceleration	B-98
88	Rear Floorpan Above Axle X-Axis Velocity	B-99
89	Rear Floorpan Above Axle Y-Axis Acceleration	B-100
90	Rear Floorpan Above Axle Y-Axis Velocity	B-101
91	Rear Floorpan Above Axle Z-Axis Acceleration	B-102
92	Rear Floorpan Above Axle Z-Axis Velocity	B-103
93	Rear Floorpan Above Axle Resultant Acceleration	B-104
94	Left Side Sill at Front Seat Y-Axis Acceleration	B-105
95	Left Side Sill at Front Seat Y-Axis Velocity	B-106
96	Left Side Sill at Front Seat Y-Axis Displacement	B-107
97	Left Side Sill at Rear Seat Y-Axis Acceleration	B-108
98	Left Side Sill at Rear Seat Y-Axis Velocity	B-109
99	Left Side Sill at Rear Seat Y-Axis Displacement	B-110
100	Left Front Door on Centerline Y-Axis Acceleration	B-111
101	Left Front Door on Centerline Y-Axis Velocity	B-112

Table of Data Plots (Continued)
Test Vehicle Instrumentation Plots (Continued)
Acceleration Data - Filter Class 60
Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
102	Left Front Door on Centerline Y-Axis Displacement	B-113
103	Right Rear Occupant Compartment Y Axis Acceleration	B-114
104	Right Rear Occupant Compartment Y Axis Velocity	B-115
105	Right Rear Occupant Compartment Y Axis Displacement	B-116
106	Left Front Door Mid-Rear Y-Axis Acceleration	B-117
107	Left Front Door Mid-Rear Y-Axis Velocity	B-118
108	Left Front Door Mid-Rear Y-Axis Displacement	B-119
109	Left Front Door Upper Centerline Y-Axis Acceleration	B-120
110	Left Front Door Upper Centerline Y-Axis Velocity	B-121
111	Left Front Door Upper Centerline Y-Axis Displacement	B-122
112	Left Rear Door Mid-Rear Y-Axis Acceleration	B-123
113	Left Rear Door Mid-Rear Y-Axis Velocity	B-124
114	Left Rear Door Mid-Rear Y-Axis Displacement	B-125
115	Left Rear Door Upper Centerline Y-Axis Acceleration	B-126
116	Left Rear Door Upper Centerline Y-Axis Velocity	B-127
117	Left Rear Door Upper Centerline Y-Axis Displacement	B-128
118	Left Lower A-Post Y-Axis Acceleration	B-129
119	Left Lower A-Post Y-Axis Velocity	B-130
120	Left Middle A-Post Y-Axis Acceleration	B-131
121	Left Middle A-Post Y-Axis Velocity	B-132
122	Left Lower B-Post Y-Axis Acceleration	B-133
123	Left Lower B-Post Y-Axis Velocity	B-134
124	Left Middle B-Post Y-Axis Acceleration	B-135
125	Left Middle B-Post Y-Axis Velocity	B-136
126	Left Front Seat Track Y-Axis Acceleration	B-137
127	Left Front Seat Track Y-Axis Velocity	B-138
128	Left Rear Seat Track Y-Axis Acceleration	B-139
129	Left Rear Seat Track Y-Axis Velocity	B-140
130	Vehicle Center of Gravity X-Axis Acceleration	B-141

Table of Data Plots (Continued)
Test Vehicle Instrumentation Plots (Continued)
 Acceleration Data - Filter Class 60
 Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
131	Vehicle Center of Gravity X-Axis Velocity	B-142
132	Vehicle Center of Gravity Y-Axis Acceleration	B-143
133	Vehicle Center of Gravity Y-Axis Velocity	B-144
134	Vehicle Center of Gravity Z-Axis Acceleration	B-145
135	Vehicle Center of Gravity Z-Axis Velocity	B-146
136	Vehicle Center of Gravity Resultant Acceleration	B-147

MDB Instrumentation Plots
 Acceleration Data - Filter Class 60
 Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
137	MDB Center of Gravity X-Axis Acceleration	B-149
138	MDB Center of Gravity X-Axis Velocity	B-150
139	MDB Center of Gravity Y-Axis Acceleration	B-151
140	MDB Center of Gravity Y-Axis Velocity	B-152
141	MDB Center of Gravity Z-Axis Acceleration	B-153
142	MDB Center of Gravity Z-Axis Velocity	B-154
143	MDB Center of Gravity Resultant Acceleration	B-155
144	MDB Left Rear X-Axis Acceleration	B-156
145	MDB Left Rear X-Axis Velocity	B-157
146	MDB Left Rear Y-Axis Acceleration	B-158
147	MDB Left Rear Y-Axis Velocity	B-159
148	MDB Right Side Contact Switch	B-160
149	MDB Left Side Contact Switch	B-161

Table of Data Plots (Continued)
Driver and Passenger Dummy Instrumentation Plots
Acceleration Data - FIR Filtered

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
150	Driver Upper Rib Y-Axis Acceleration	B-163
151	Driver Lower Rib Y-Axis Acceleration	B-164
152	Driver Lower Spine Y-Axis Acceleration	B-165
153	Driver Pelvis Y-Axis Acceleration	B-166
154	Left Rear Passenger Upper Rib Y-Axis Acceleration	B-167
155	Left Rear Passenger Lower Rib Y-Axis Acceleration	B-168
156	Left Rear Passenger Lower Spine Y-Axis Acceleration	B-169
157	Left Rear Passenger Pelvis Y-Axis Acceleration	B-170

Driver and Passenger Dummy Instrumentation Plots
Acceleration Data - FIR Filtered - Redundant

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
158	Driver Upper Rib Y-Axis Redundant Acceleration	B-172
159	Driver Lower Rib Y-Axis Redundant Acceleration	B-173
160	Driver Lower Spine Y-Axis Redundant Acceleration	B-174
161	Driver Pelvis Y-Axis Redundant Acceleration	B-175
162	Left Rear Passenger Upper Rib Y-Axis Redundant Acceleration	B-176
163	Left Rear Passenger Lower Rib Y-Axis Redundant Acceleration	B-177
164	Left Rear Passenger Lower Spine Y-Axis Redundant Acceleration	B-178
165	Left Rear Passenger Pelvis Y-Axis Redundant Acceleration	B-179

Driver and Passenger Dummy Instrumentation Plots

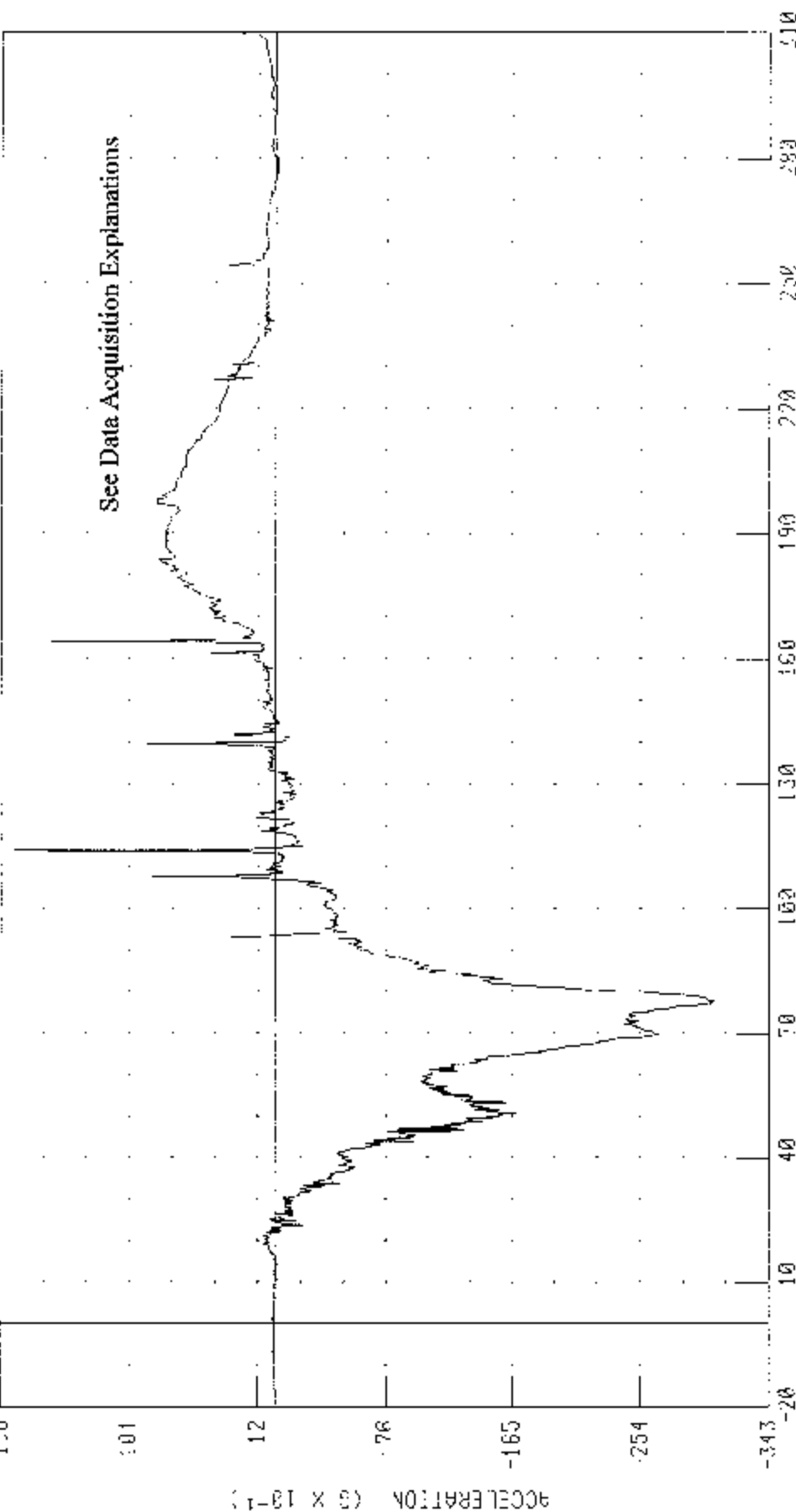
55/28 KPH 90 DEGREE SIDE IMPACT CURVING REFORMABLE BARRIER INTO LEFT SIDE OF 2007 HONDA AT 1000

DRIVER HEAD X-AXIS ACCELERATION

INVEST 204 LEFT SIDE IMPACT

TRC IND

LES NUMBER 030325-1



ACCELERATION (G X 10⁻¹)

TIME (MS)

CHANNEL: HEDXC1 FILTER: CH. CLASS 1000

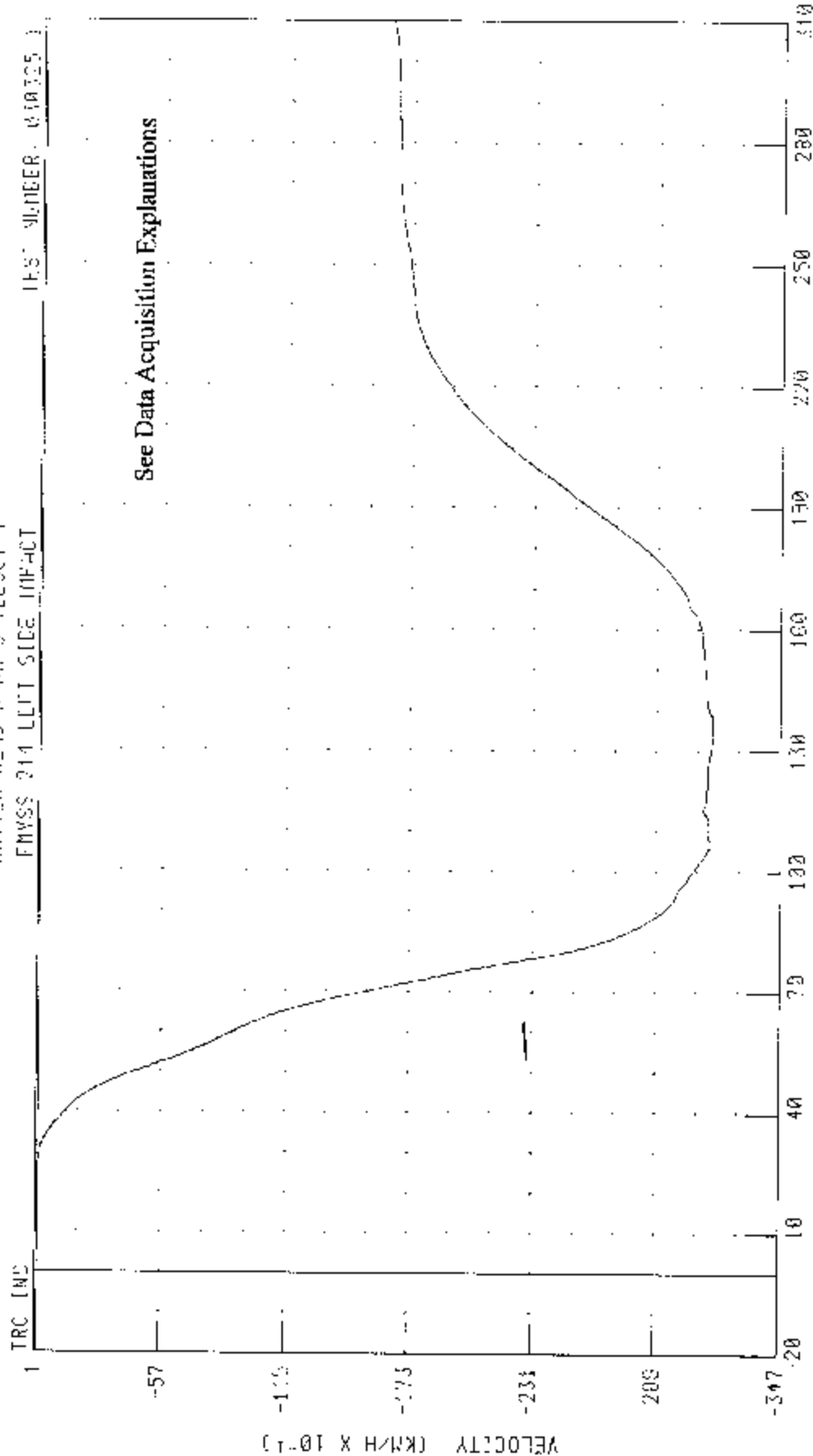
PEAK DATA 130400 114.24 MS -36.71 G @ 77.76 MS

55/28 KPH 92 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) IMPACT SIDE LEFT SIDE LEFT ACCORD

DRIVER HEAD X-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 010125



See Data Acquisition Explanations

CHANNEL: HEDXVI FILTER: CH CLASS 130

TIME (MS)

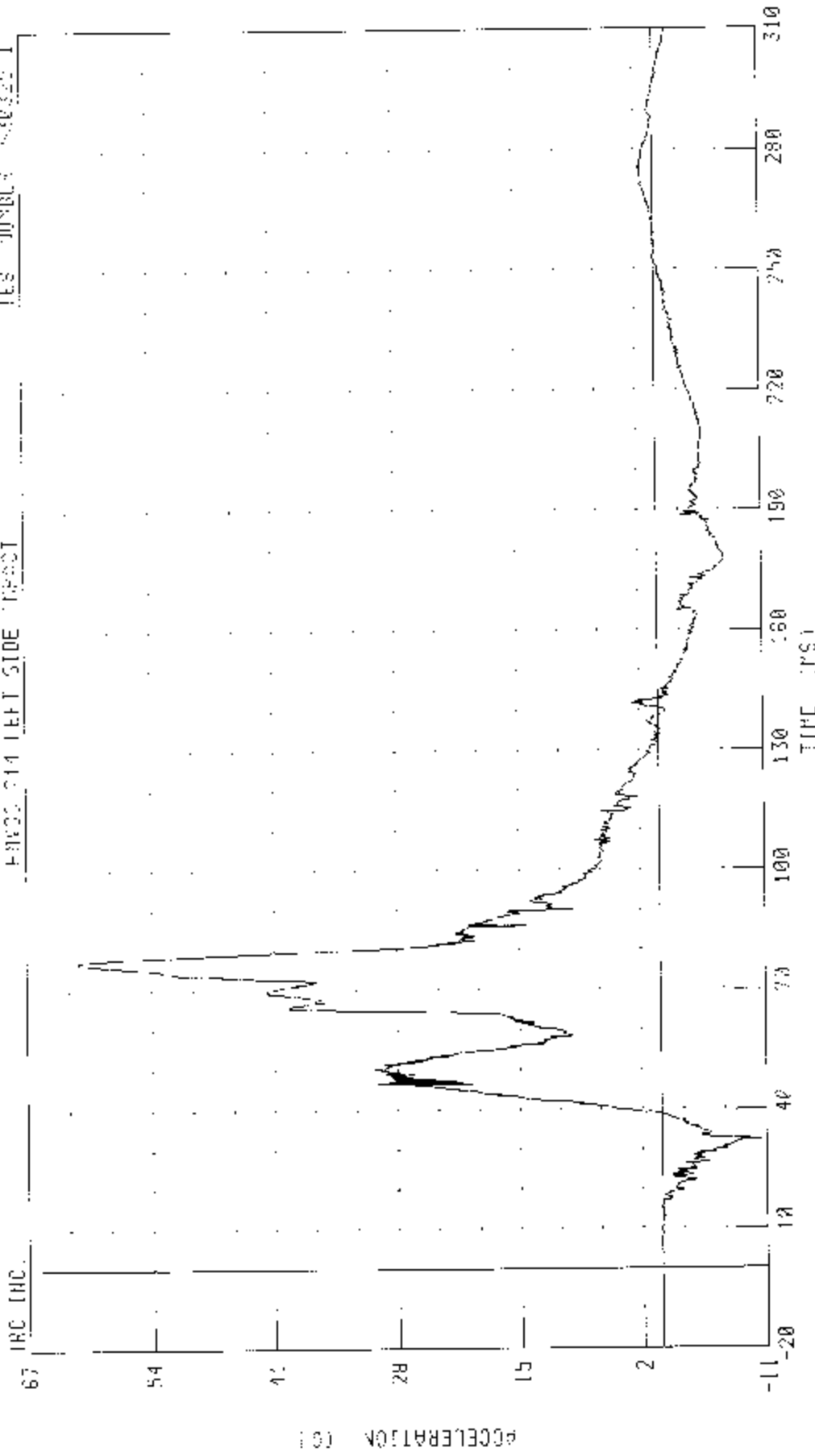
PLAK DEFO: 0 1; CRASH 0 22 04 MS -0.55 KPH 118 152 28 MS

55/20 KPH 40 DEGREE SIDE IMPACT (MOVING DEFENDABLE BARRIER) AT LEFT SIDE OF 2003 HONDA ACCORD

DRIVER SEAT HEADLINE'S ACCELERATION

EVENT 014 LEFT SIDE IMPACT

FILE NUMBER 030325-1



CHANNEL: HEDYG1 FILTER: CH CLASS: 1000

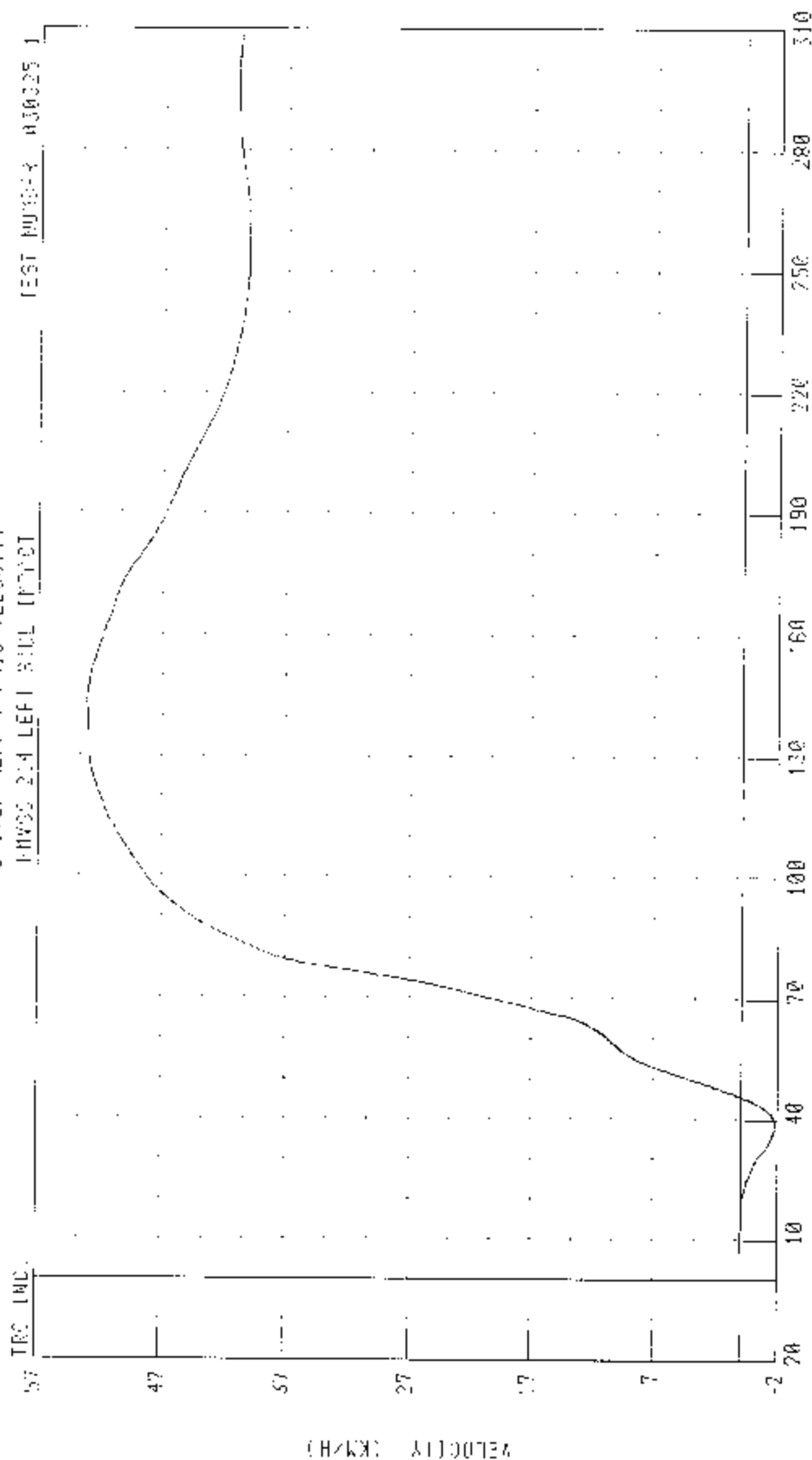
PEAK DATA 61 78 0 0 77 28 MS, 10 45 0 0 30 48 MS

55/23 K24 400 BULDOZER SIDE IMPACT (NOV NO DEFORMABLE BARRIER) INTO LEFT SIDE OF VARIOUS FRONTA ACCUAT

CRUISE VELOCITY=40.00 VELOCITY

HWYS 234 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



TIME (MS)

CHANNEL HEDY01 FILTER CH CLASS 180

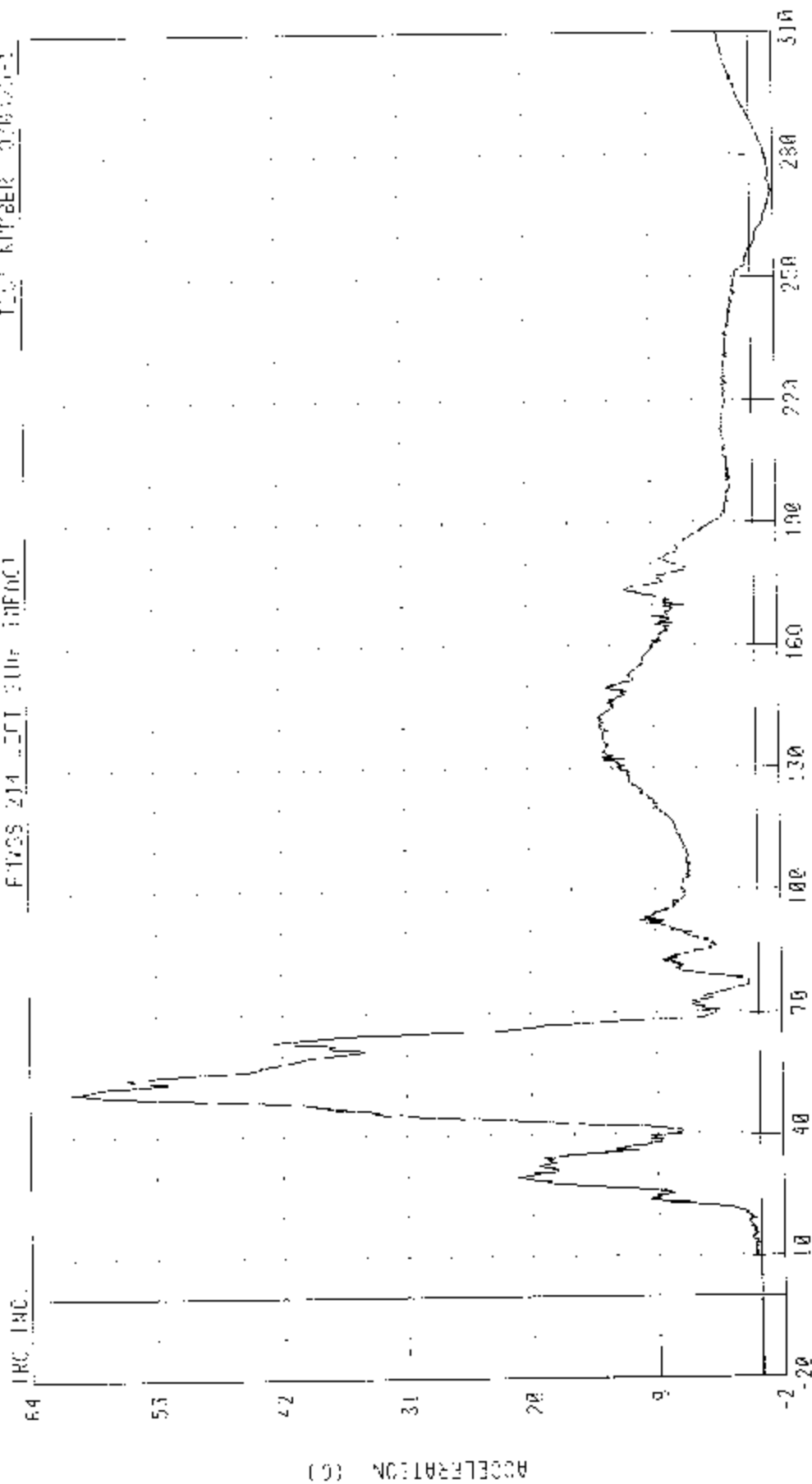
FFR2 DATA 53 24 K14 0 143 12 MS, 2 7: K14H 0 38.80 NS

55/28 MPH 30 DEGREE STEEP UPGRADE - 10/10/70, DETONABLE FUSIBLE, INTO LEFT SIDE OF ROAD 40' FROM RAILROAD

DRIVER HEAD Z-Axis ACCELERATION

FIGURE 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



PEAK DATA: 50.54 G @ 50.00 MS; -1.83 G @ 270.80 MS

CHANNEL HEAD/3: FILTER: CH CLASS 1000

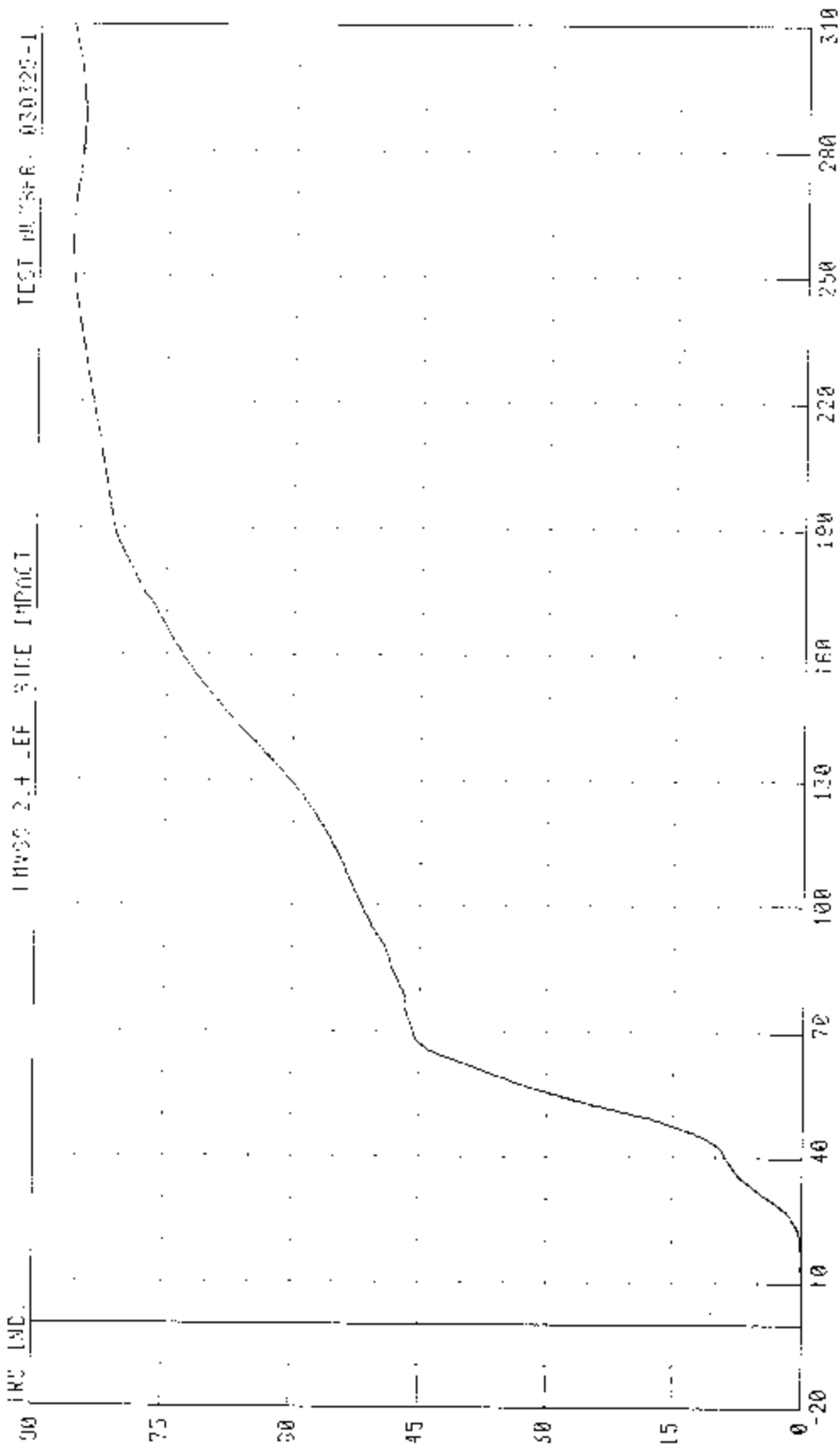
50.728 KPH 30 DEGREE SIDE IMPACT (MOVING OF-WHEELED DRIVER) INTO LEFT SIDE OF 2003 FORD FOCUS ACCORD

DRIVER HEAD /-AXIS VELOCITY

INMS 2.4 LEFT SIDE IMPACT

IRS LVD

TEST NUMBER: 030325-1



TIME (MS)

CHANNEL: HEAD01

FILTER: CH CLASS 180

PEAK DATE: 86 10 KPH @ 310 MS; 0 00 KPH @ 0 5 20 MS

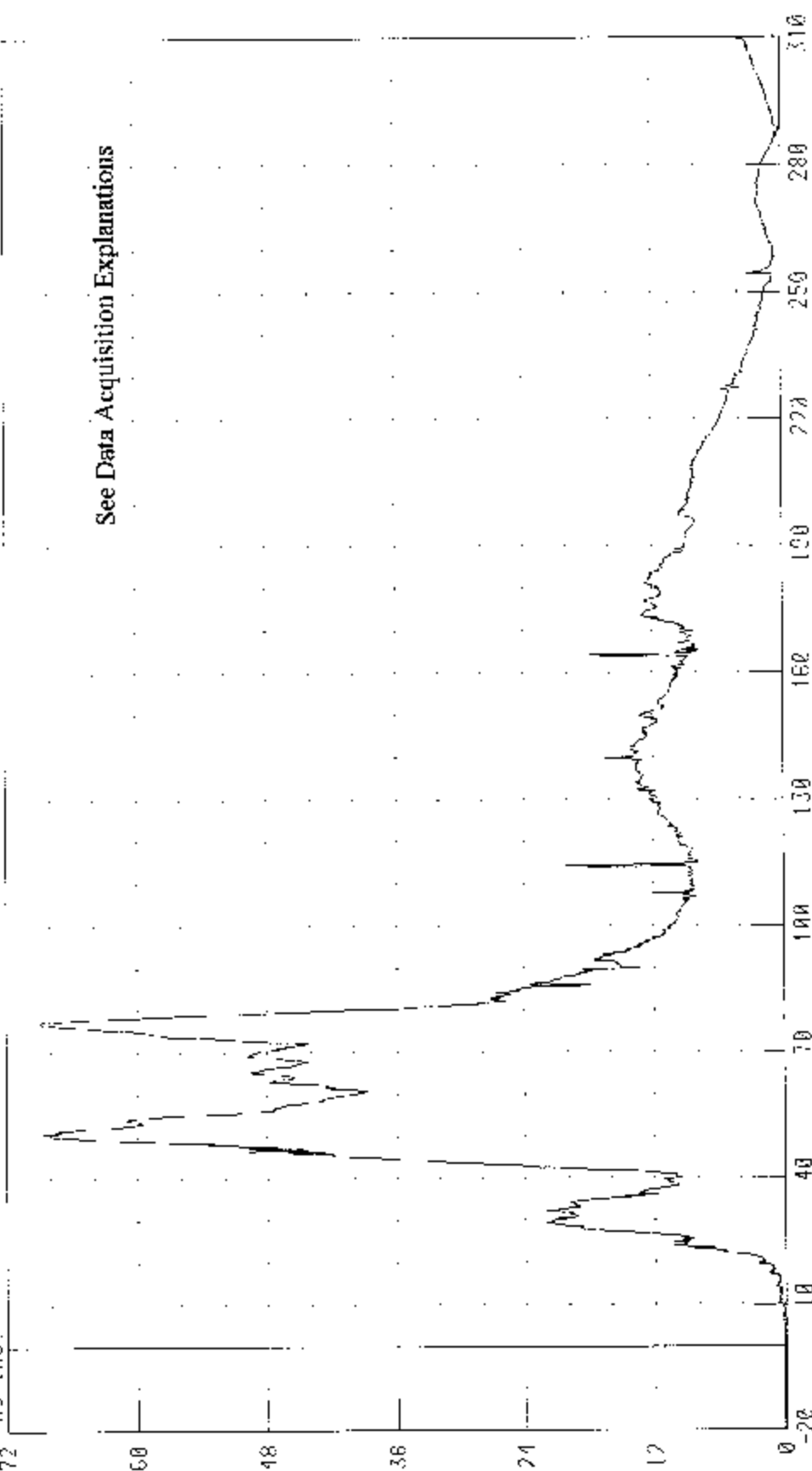
01/29/98 4PM 00 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HENLEY ACCIDENT

DRIVER HEAD RESTRAINT OCCUPANT PROTECTION

TEST NUMBER: 030325-1

PROCESS 214 LEFT SIDE IMPACT

TRC INC.



TIME (MS)

CHANNEL HED01 FILTER CH CLASS 1000

PEAK DATA 63.92 E @ 77.00 MS. @ 31.0 E -19.70 MS

ACCELERATION (G)

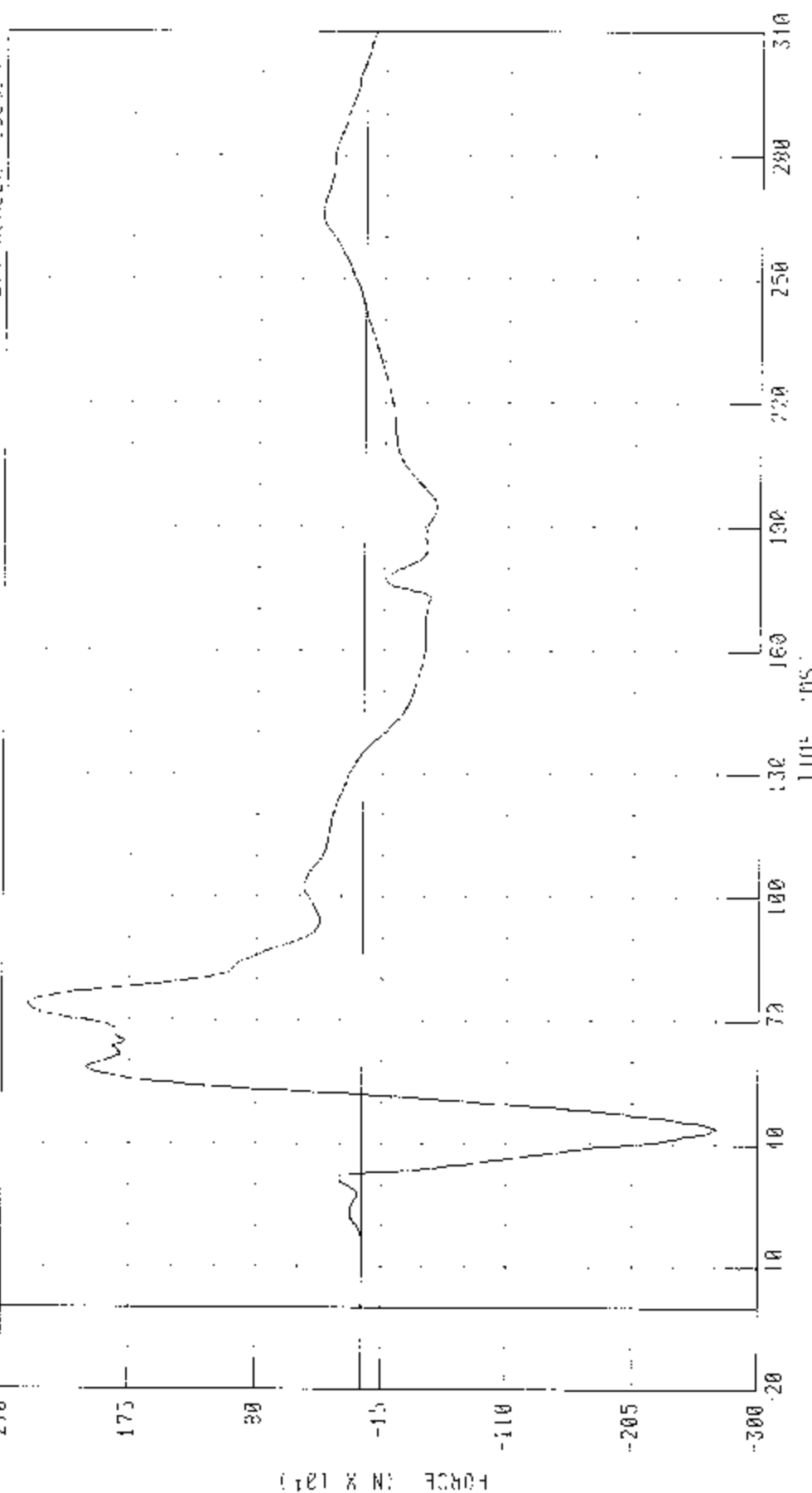
55/28 KPH 40 DEGREE SIDO IMPACT (MOVING DEFLECTABLE CARTRIDGE INTO LEFT SIDE OF 3003 INCHES ALLEN)

DRIVER NETX 3 HX50 SHEAR FORCE

PRVSC 314 LEFT SIDE IMPACT

IRC INC

TEST NUMBER 030325-

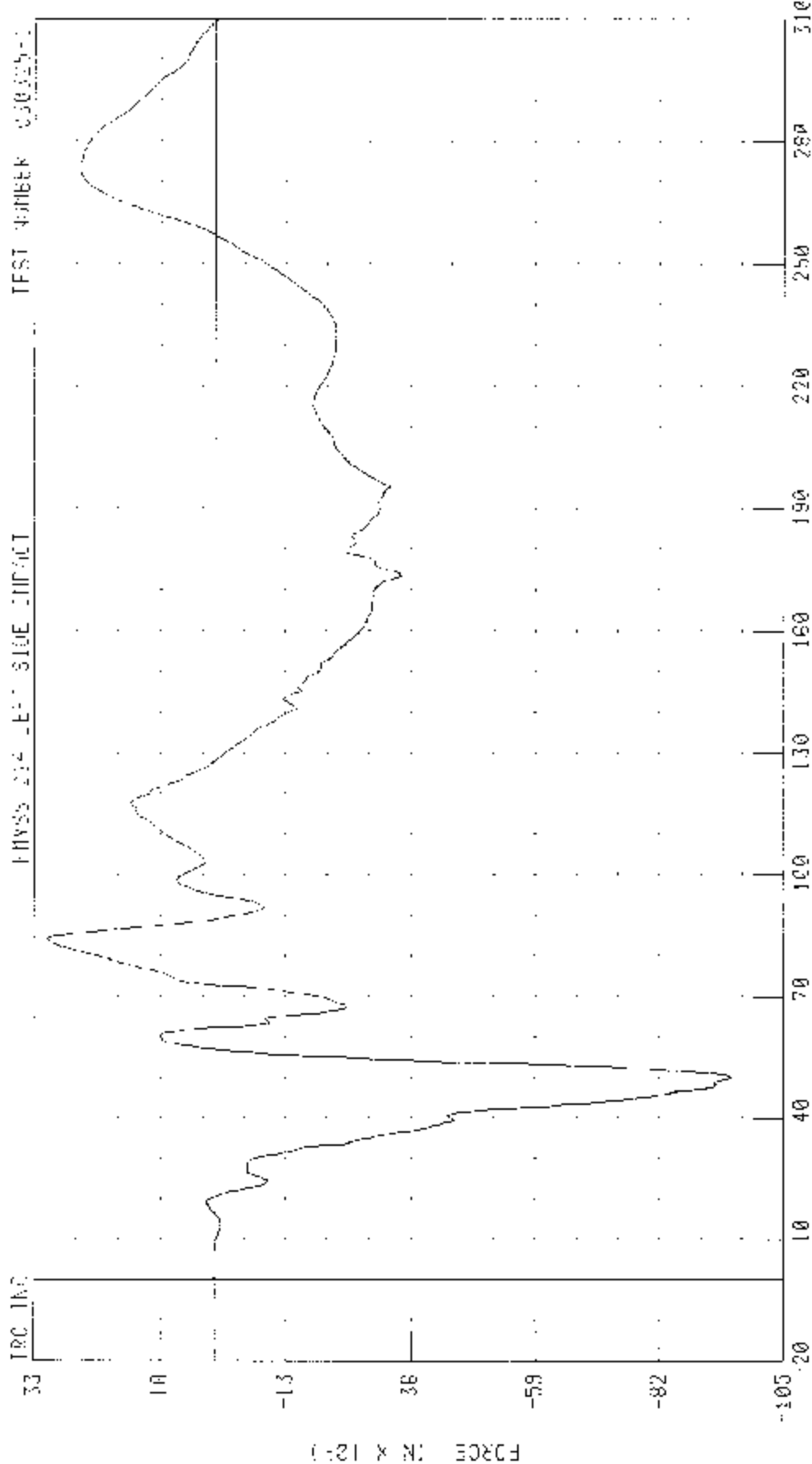


CHANNEL: NCKXF1 FILTER: CH CLASS: 1000

PEAK DATA 2504 0E N 2 74 74 15, -2693 48 N 2 57 115

55.28 KPH 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRELS INTO FRT RIFF OF 2003 HUNTER VEHICLE

DRIVER VEHICLE AXIS SHEARS - RIGHT



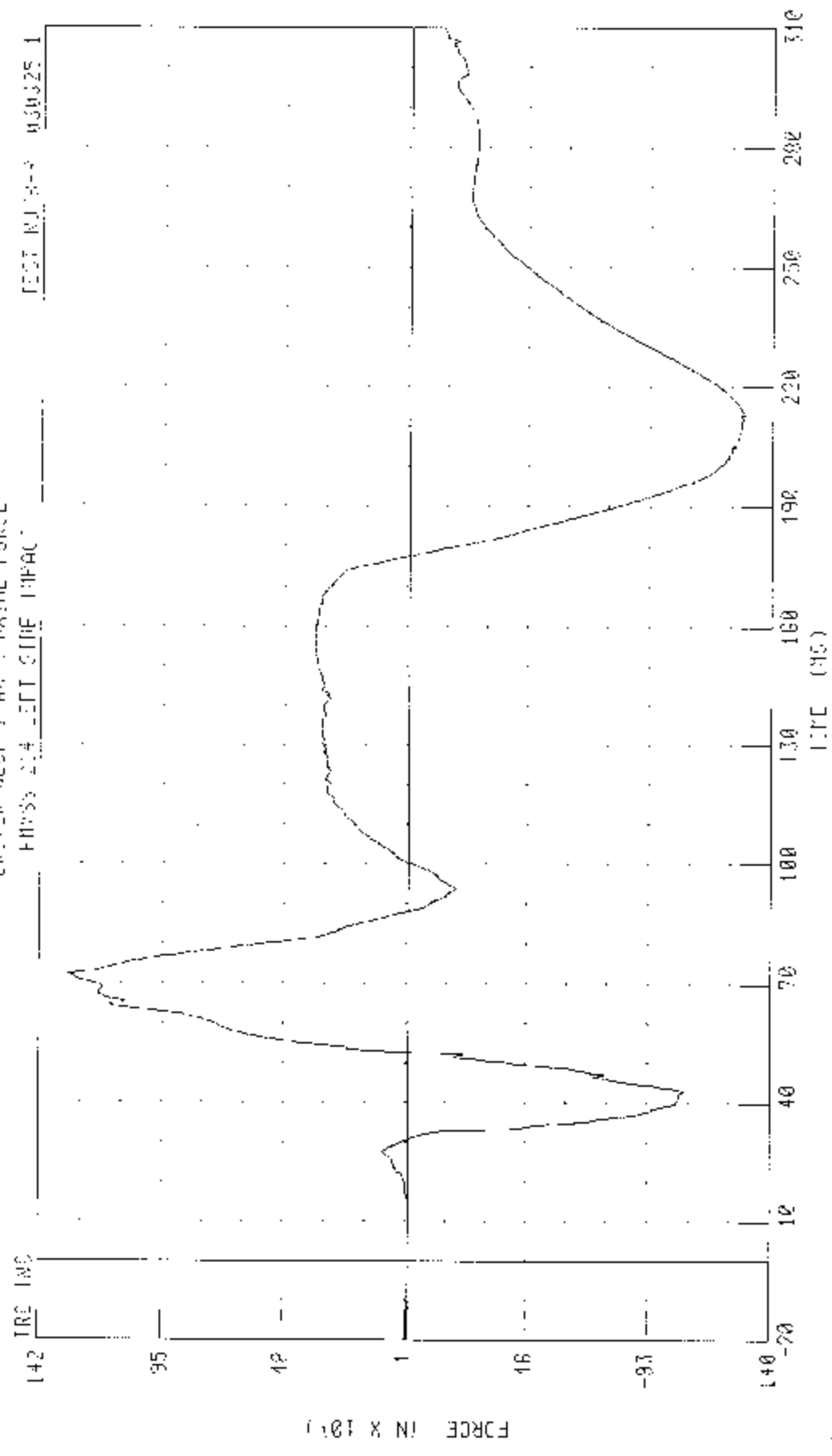
TIME (MS)

CHANVIL NL-YF1 FILTER: CH 214SS 1000

PEAK DATA 303 11 N 0 84.40 18; -854 53 H 0 50 10 MS

55-25 KPH 20 DEGREE SIDE IMPACT MOVING TARGET FORCES, INFO LEFT SIDE OF 2007 FORD ACUR

UPPER REAR 7-44 3 AXIAL FORCE



TEST N13-2 030325-1

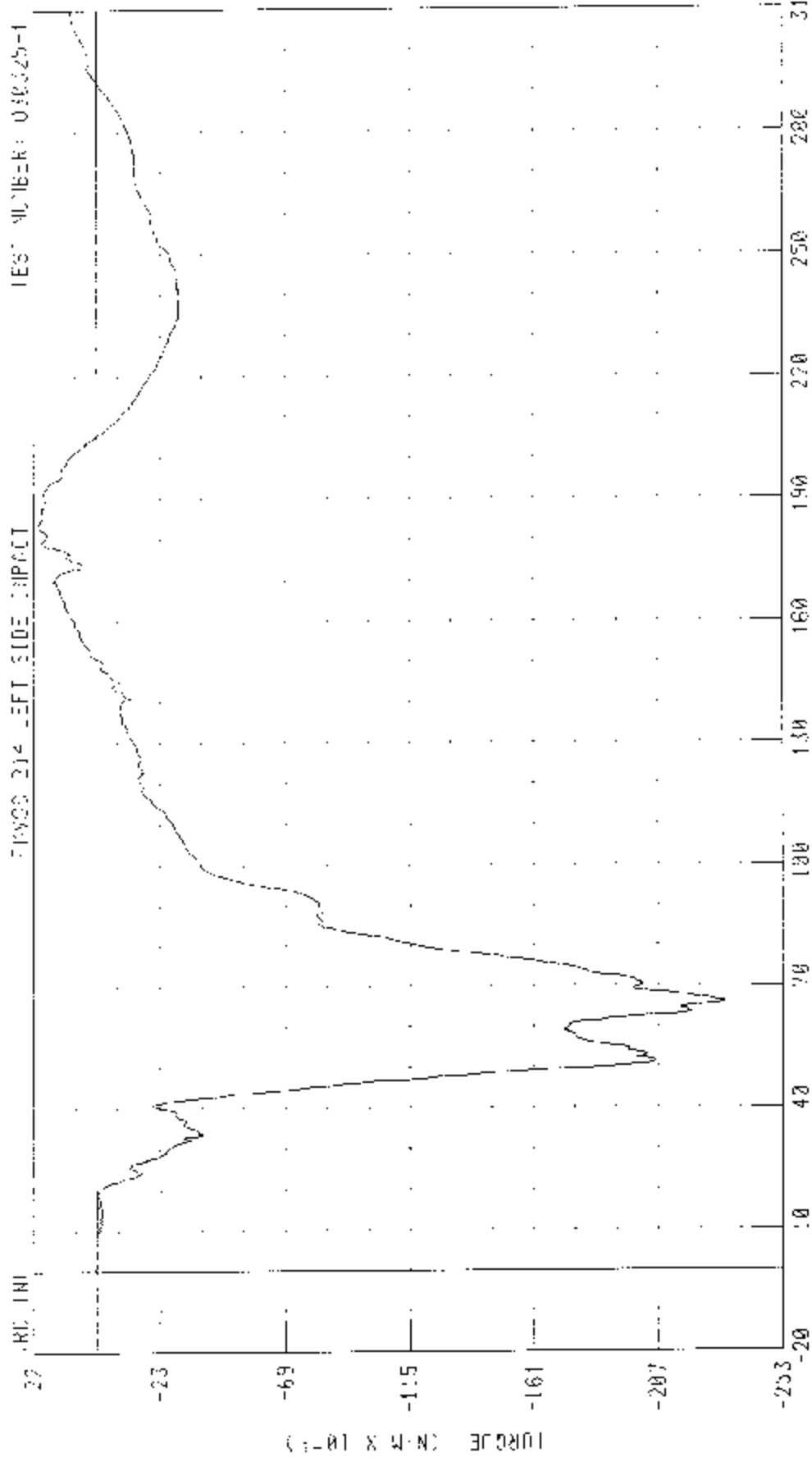
CHANNEL NFX771 FILTER CH CLASS 1000

55000 4PH 90 DEGREE SIDE IMPACT MOVING D-FORMABLE BARRIER INTO LEFT SIDE OF 2000 HONOLULU A01000

ORIGIN: 4PH 90 DEGREE SIDE IMPACT

TEST NUMBER: 030325-1

TEST 204 LEFT SIDE IMPACT



TIME (MS)

CHANNEL NLKXN1 FILTER CL. CLOS 600

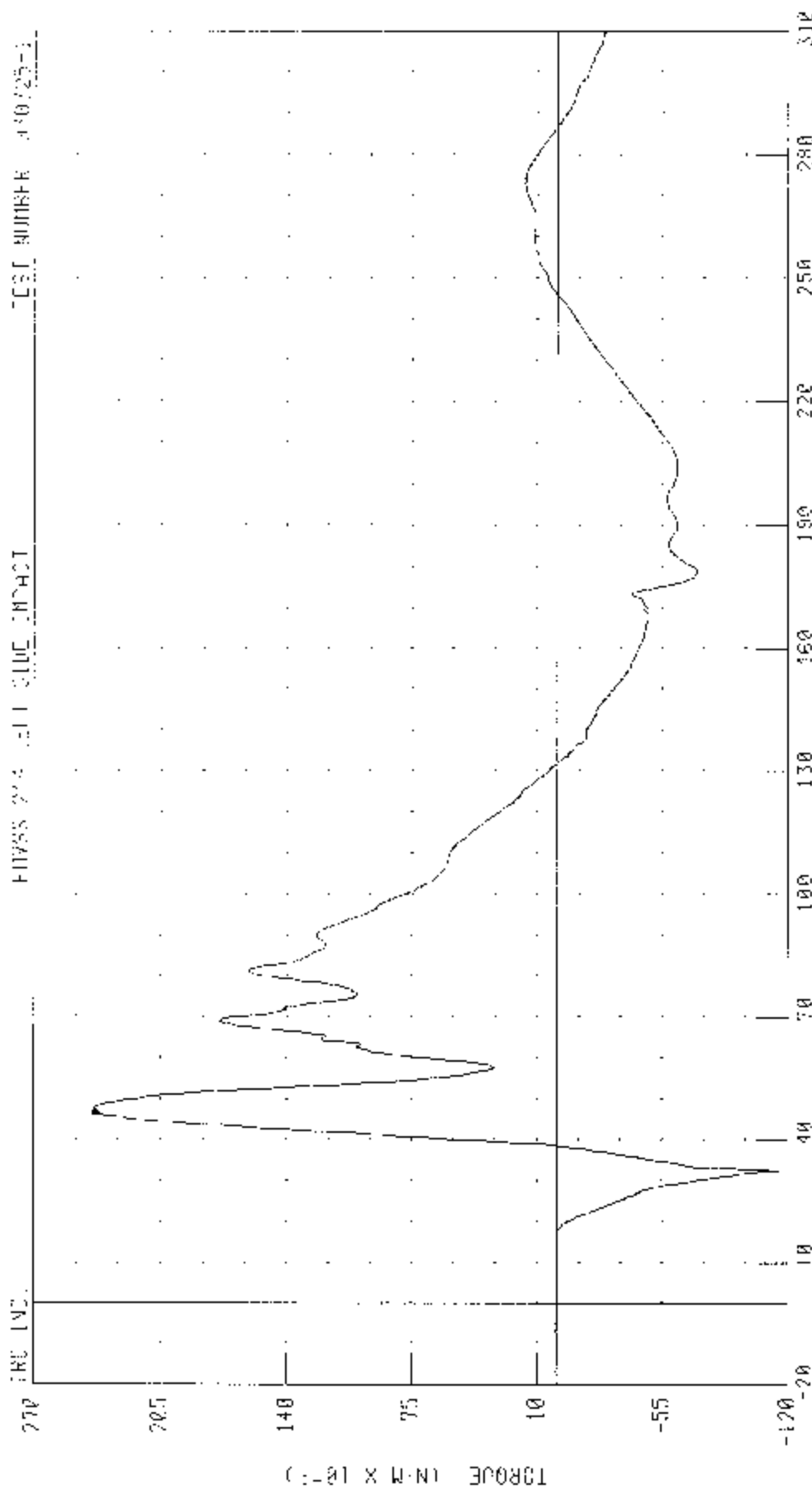
PEAK DATA: 2 17 N P 8 183 22 MS, -25 15 N P 8 08 MS

55/28 KPH 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INFO-1-1 SIDE OF CRUS 40400 ACCORD

CRIVER RECK POTENT ABOUT 7.4MS

MOVSS 224 LEFT CLUE IMPACT

TEST NUMBER 450/25-1



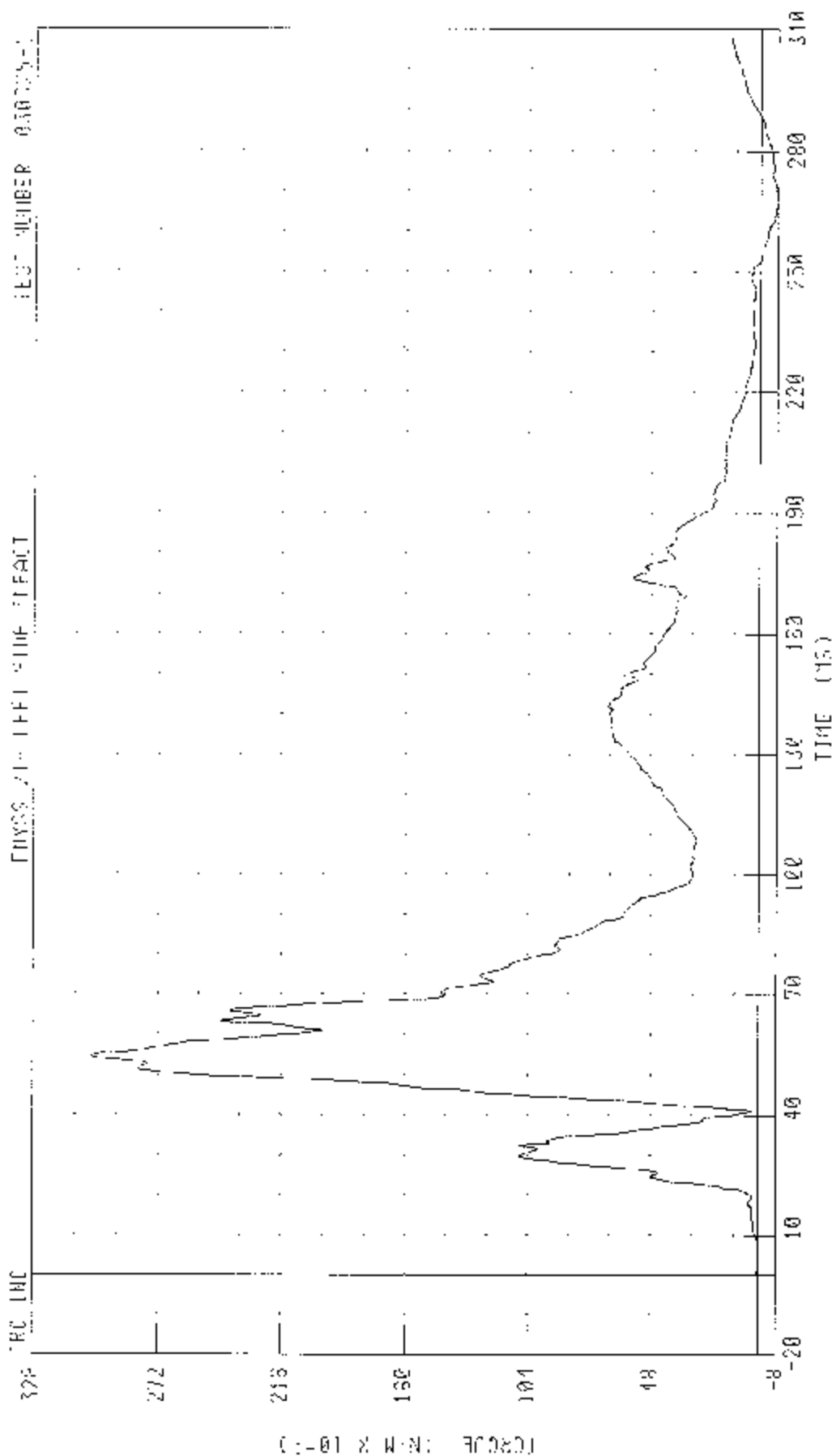
TIME (MS)

CHANNEL NIKYU1 FILTER CL. CLASS 600

PEAK DATA 74 MS V P 6 46 88 NS -11 50 N-M @ 32 48 MS

55/28 KPH 60 FORCE SIDE IMPACT (PROJECTILE PERMISSIBLE SAMPLED) INTO LEFT SIDE LT 2003 506000 (001000)

DRIVER BARE TIRENT ABOUT 2 HRS

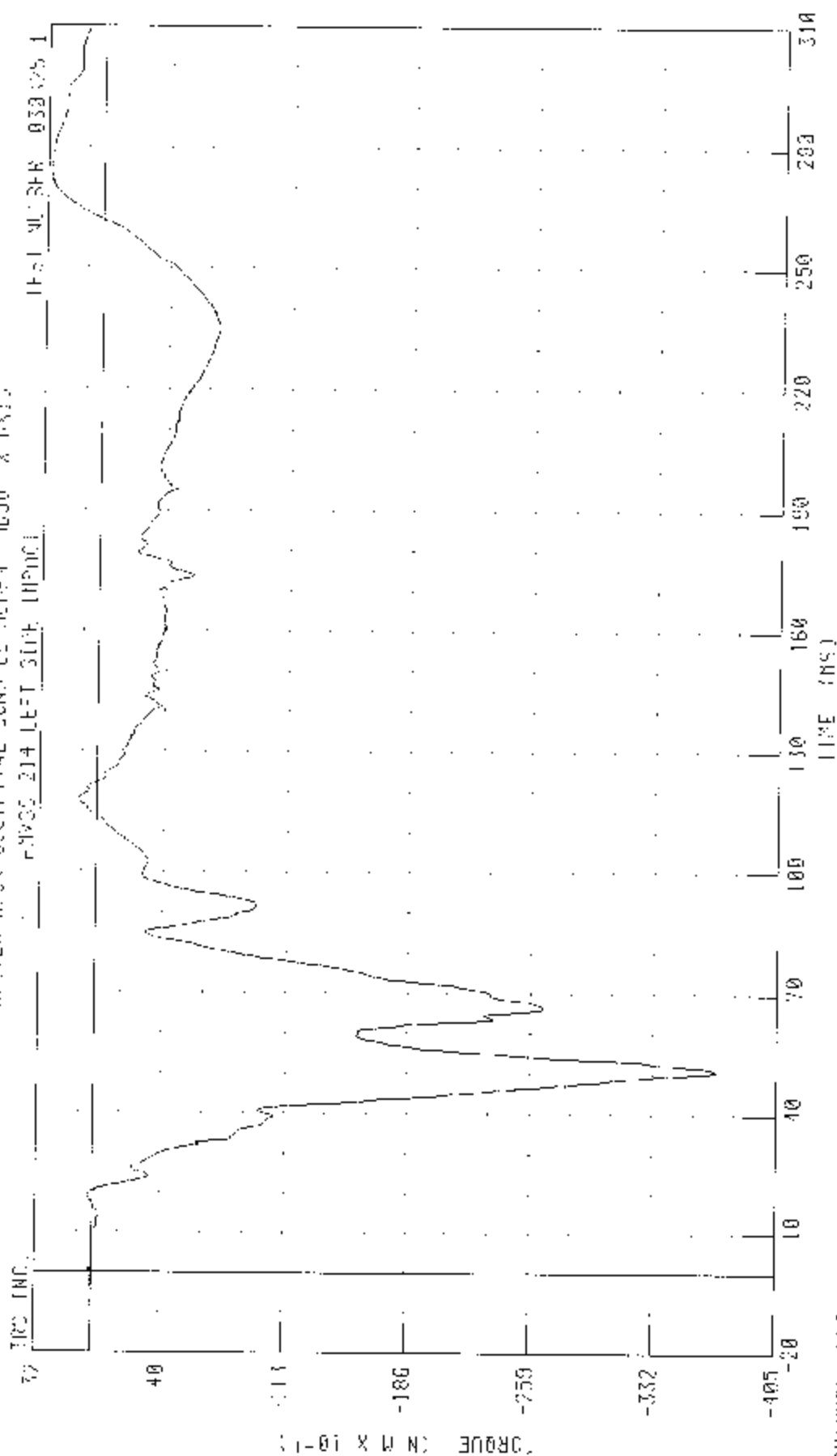


CHANNEL: BEKZMI FILTER: CL: CLASS: 600

PEAK DATA: 30 18 H 1 3 54 64 MS, 279 V H 267 35 MS

55°28' 40" 60 DEGREE SIDE IMPACT MOVING REFERRABLE BARREL INTO LEFT SIDE OF 2003 HUMMER

DRIVER REAR OCCUPANT COMPILE IMPACT ABOUT 2 AXIS



CHANNEL: PROXMI FILTER: CH CLASS 600

PEAK DATA 3 04 N M @ 273 12 MS, -38 97 4 9 30 72 MS

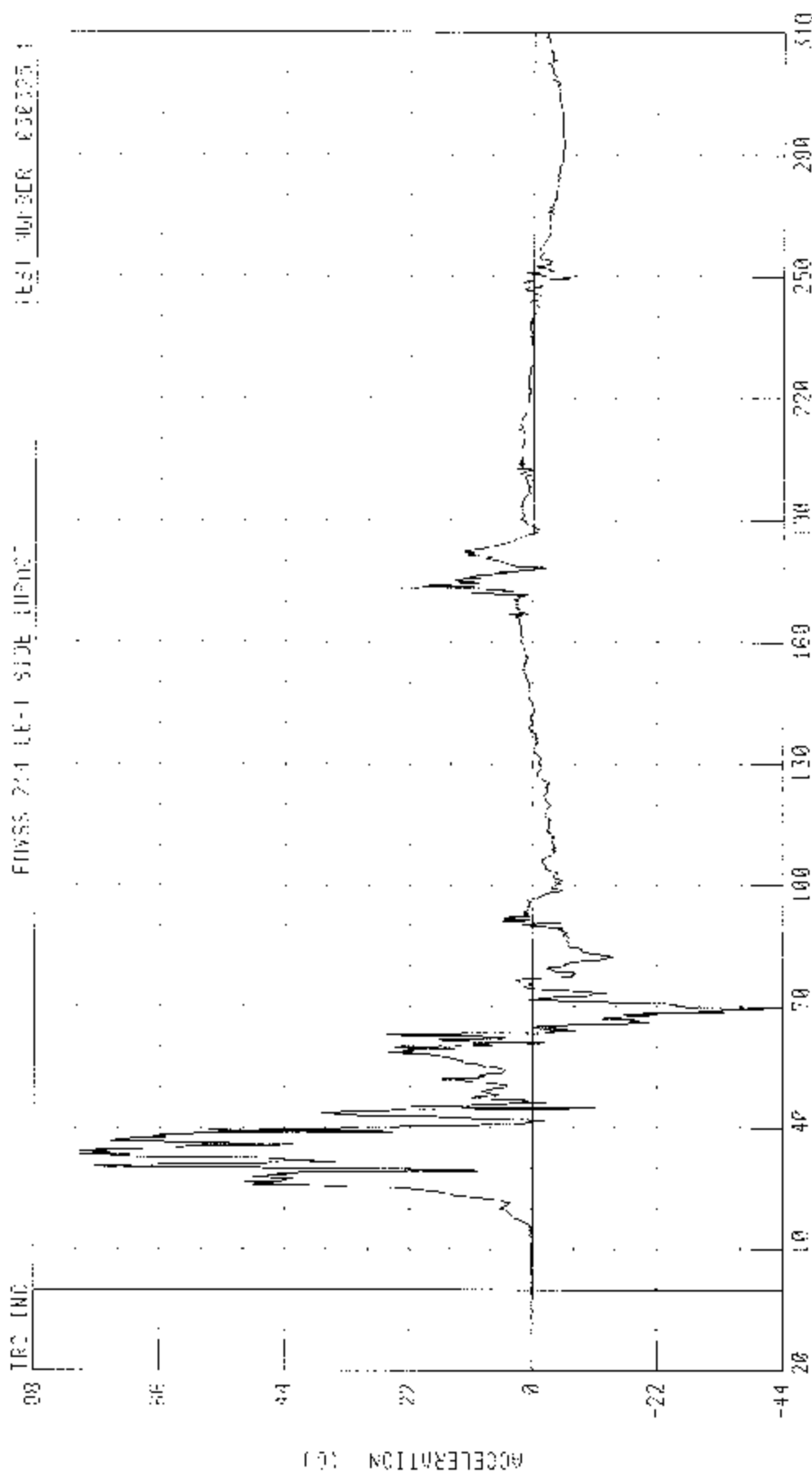
55-23 K04 20 DEGREE SIDE IMPACT CRASHING DEFORMATION PRESSURE AND LEFT SIDE OF 2003 HONDA ACCORD

PEAK UPPER RUL AXIS ACCELERATION

TRC INC

FINISH 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



TIME (MS)

CHANNEL: LURVCI FILTER: CH CLASS: 1000

PEAK DATA: 01 24 0 0 33 76 MS, -42.40 G @ 60.44 MS

05/26 KPH 00 INCR-- SIDE "TRAC" SHOWING IMPERFECT BARRIER INTO LEFT SIDE OF PORT MASHED PLOT

DRIVER UNDER 310 Y-AXIS VELOCITY

FIGURE 214 LEFT SIDE IMPACT

TEST NUMBER 030325-

TRC 100

432

360

288

216

144

72

0

-20

VELOCITY (KPH X 10-1)

100

120

140

160

180

200

220

240

260

280

300

320

340

360

380

400

420

440

460

480

500

520

540

560

580

600

620

640

660

680

700

720

740

760

780

800

820

840

860

880

900

920

940

960

980

1000

1020

1040

1060

1080

1100

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1920

1940

1960

1980

2000

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2120

2140

2160

2180

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4220

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5100

5120

5140

5160

5180

5200

5220

5240

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5280

5300

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5780

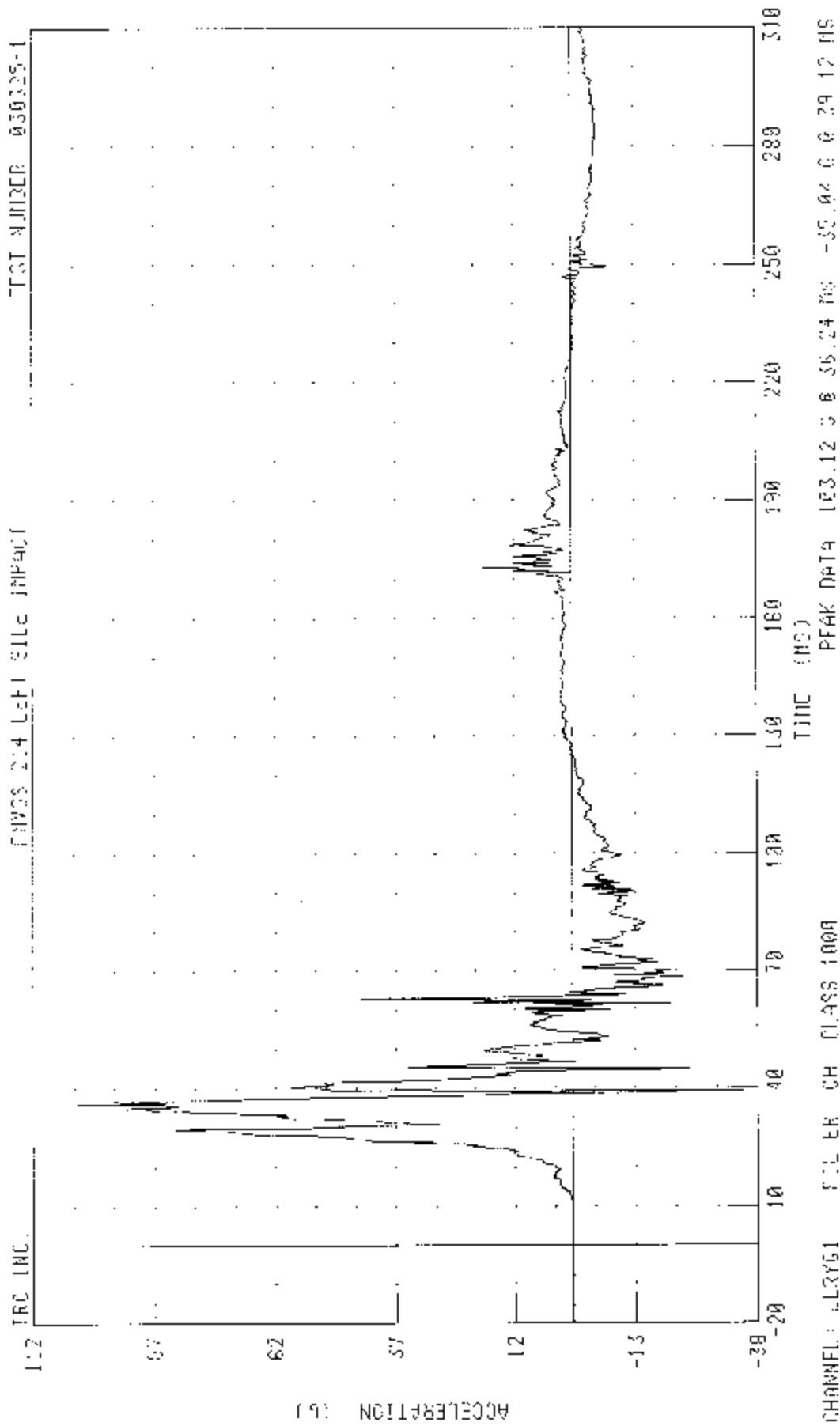
5800

5820

5840

55/28 <PI> 60 DEGREE SHUT DOWN DURING INFORMABLE BARRIER INTO LEFT SIDE OF 2003 FORD FOCUS

DRIVER LOWER RIB 3 AXIS ACCELERATION

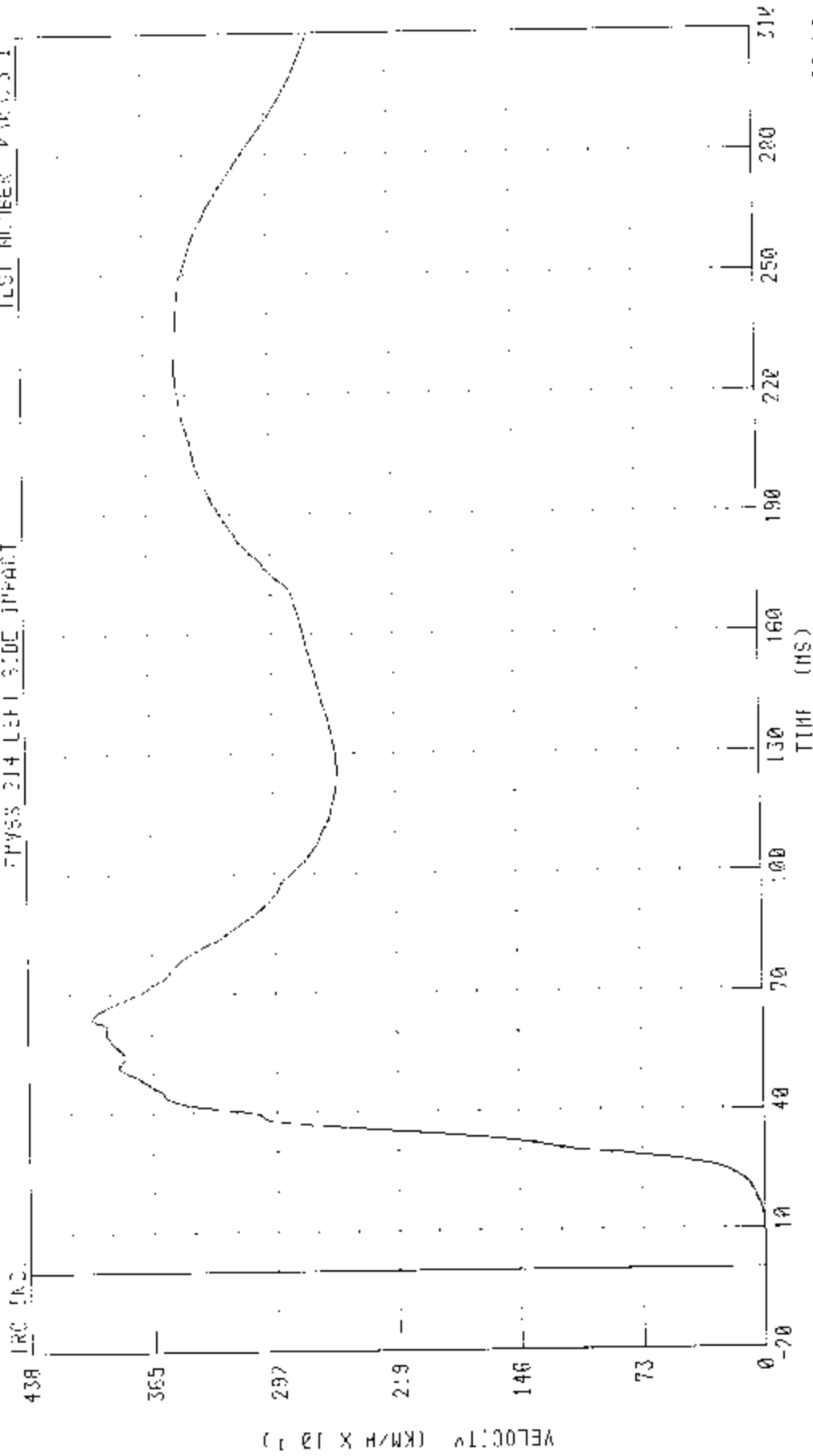


55.70 KPH 90 DEGREE G10H IMPACT (MOVING OFF BEHOLD BARRIER) (L10) FTT 5000 OF 2000 50000 00100

DRIVER LOWER R/LR V AXIS VELOCITY

TRUSS 214 LEFT SIDE IMPACT

TEST NUMBER 2101001



PGK DATA 40 00 KPH 90 63 92 MS: 0 00 KPH 0 0 00 MS

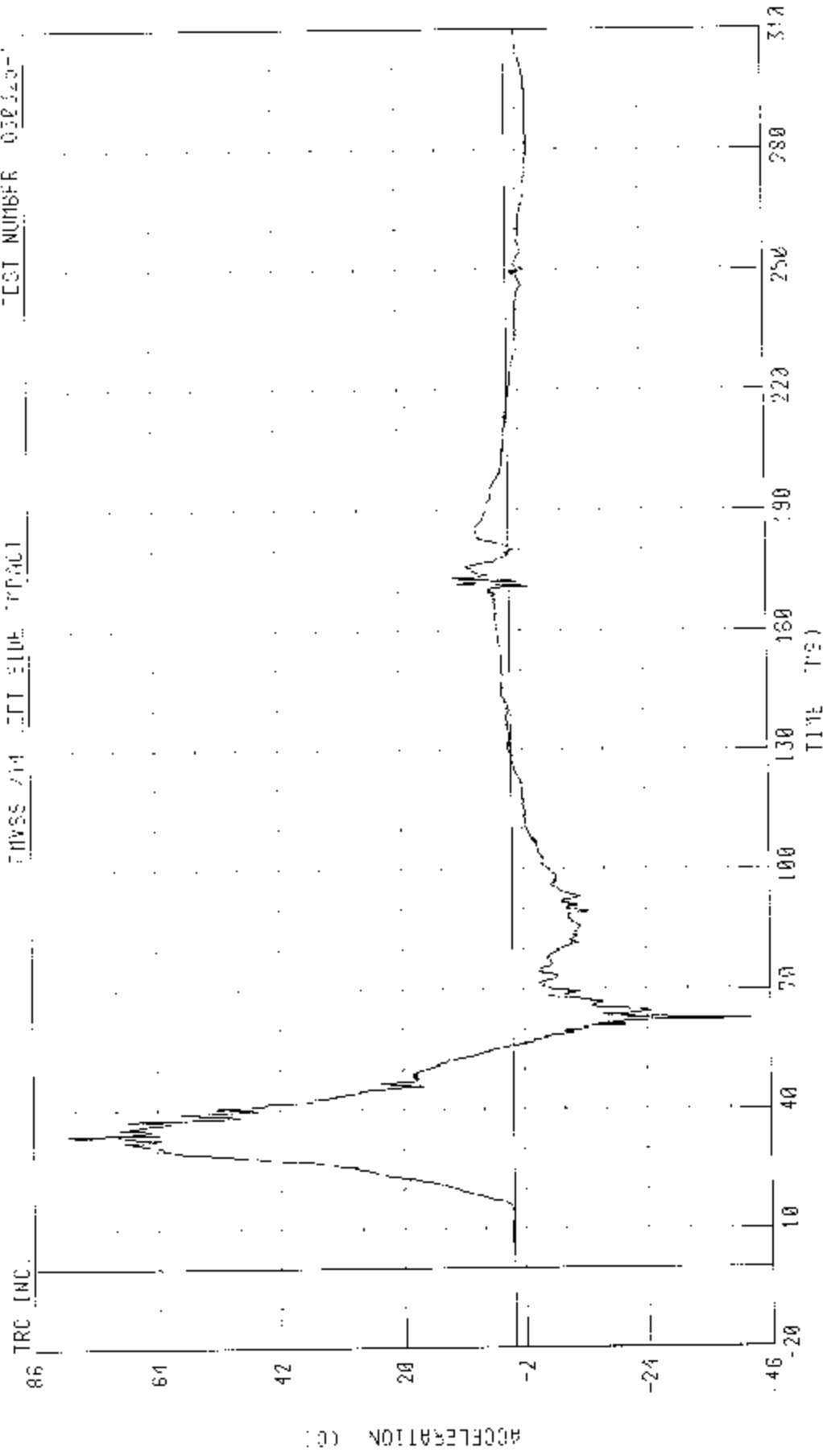
CHANNEL 1LRYV1 FILTER CH CLASS 100

50.00 X 0.00 90 DEGREE SIDE IMPACT (MOVING DETONABLE BARRELS) INTO LEFT SIDE OF 2000 HONDA ACCORD

UPPER LOWER SPIKE X AXIS ACCELERATION

CHASS 7/14 LEFT BLUE IMPACT

TEST NUMBER 030325-1



CHANNEL T120G1 FILTER: CH. CLASS 1000

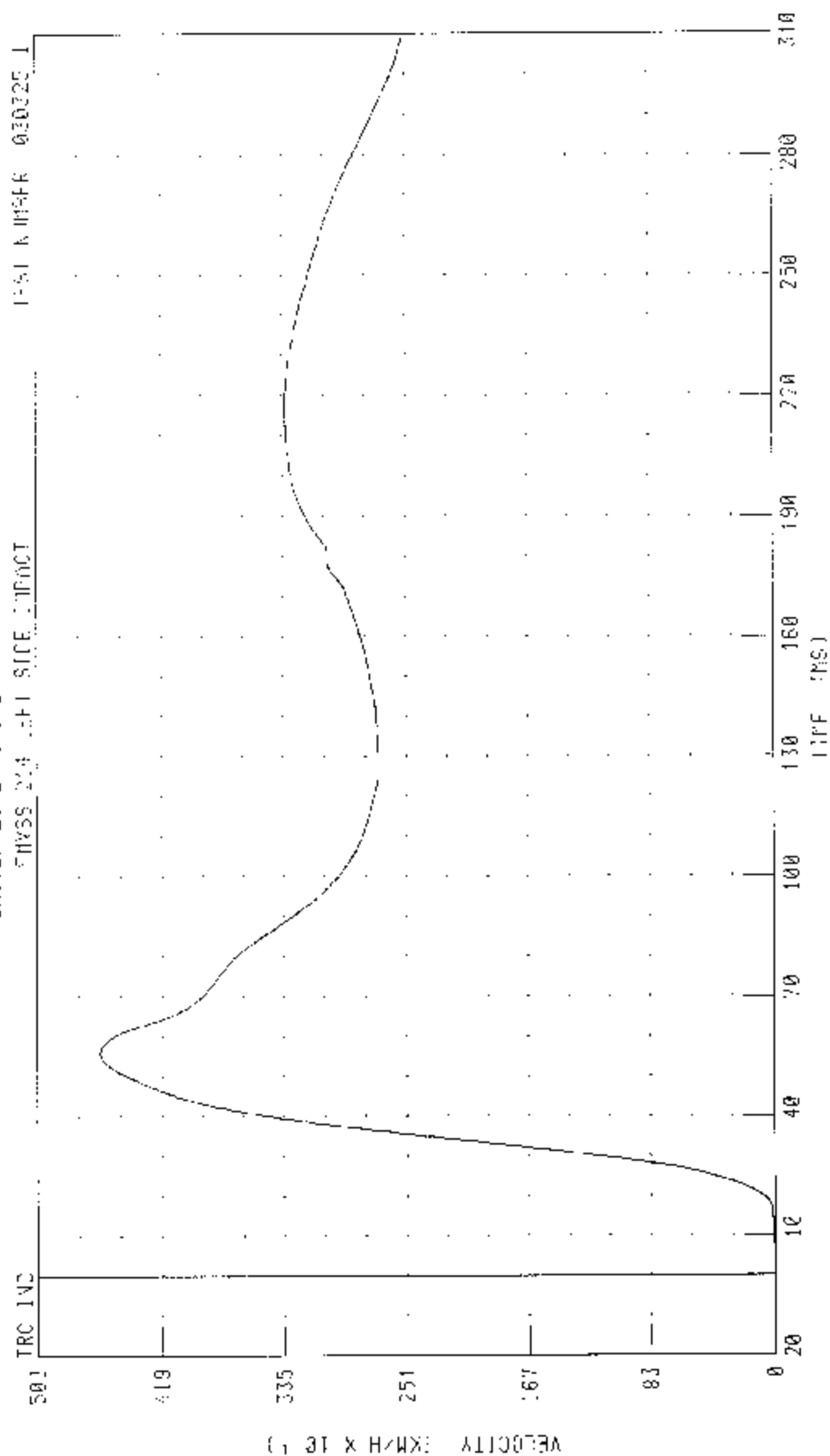
PEAK DATA: 79 88 0 0 33 76 115 42 50 0 0 32 40 115

55/20 4PII 90 DEGREE SIDE IMPACT (IMPACT DETECTABLE BARRIER) INTO LEFT SIDE OF 2003 HILUX 001000

DRIVER LOWER SPINAL Y-AXIS VELOCITY

CHASS 204 LEFT SIDE IMPACT

TEST NUMBER 030325-1



DIFF (MS)

PEAK UNIT 40 10 KM/H @ 50 00 MS, @ 30 KM/H @ 0 00 MS

CHANNEL: 112YV1 FILTER: CII CLASS 100

55-28 KFH 00 FIFTH 40NF IMPACT (CHECKING DEFERRABLE BARRIER) INTO LEFT SIDE OF 23RD HWH 4 401000

DRIVER PELVIS Y-Axis ACCELERATION

FWSS 2/3 LEFT SIDE IMPACT

TEST NUMBER 030325



CHANNEL PEY61 FILTER: CH. CLASS: 0000

PEAK DATA: 87.63 G @ 25.56 MS. 32 1/2 2 50.64 MS

55/20 KPH 40 DEGREE SIDE IMPACT (NOV LG DEFORMABLE BARRIERS) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER PELVIS Y-AXIS VELOCITY

TRUSS 214 LEFT SIDE IMPACT

IRC INC

TEST NUMBER 030325-1

VELOCITY (KPH X 10⁻³)

TIME (MS)

CHANNEL PEVYV1 FILTER CII CLASS 1R0

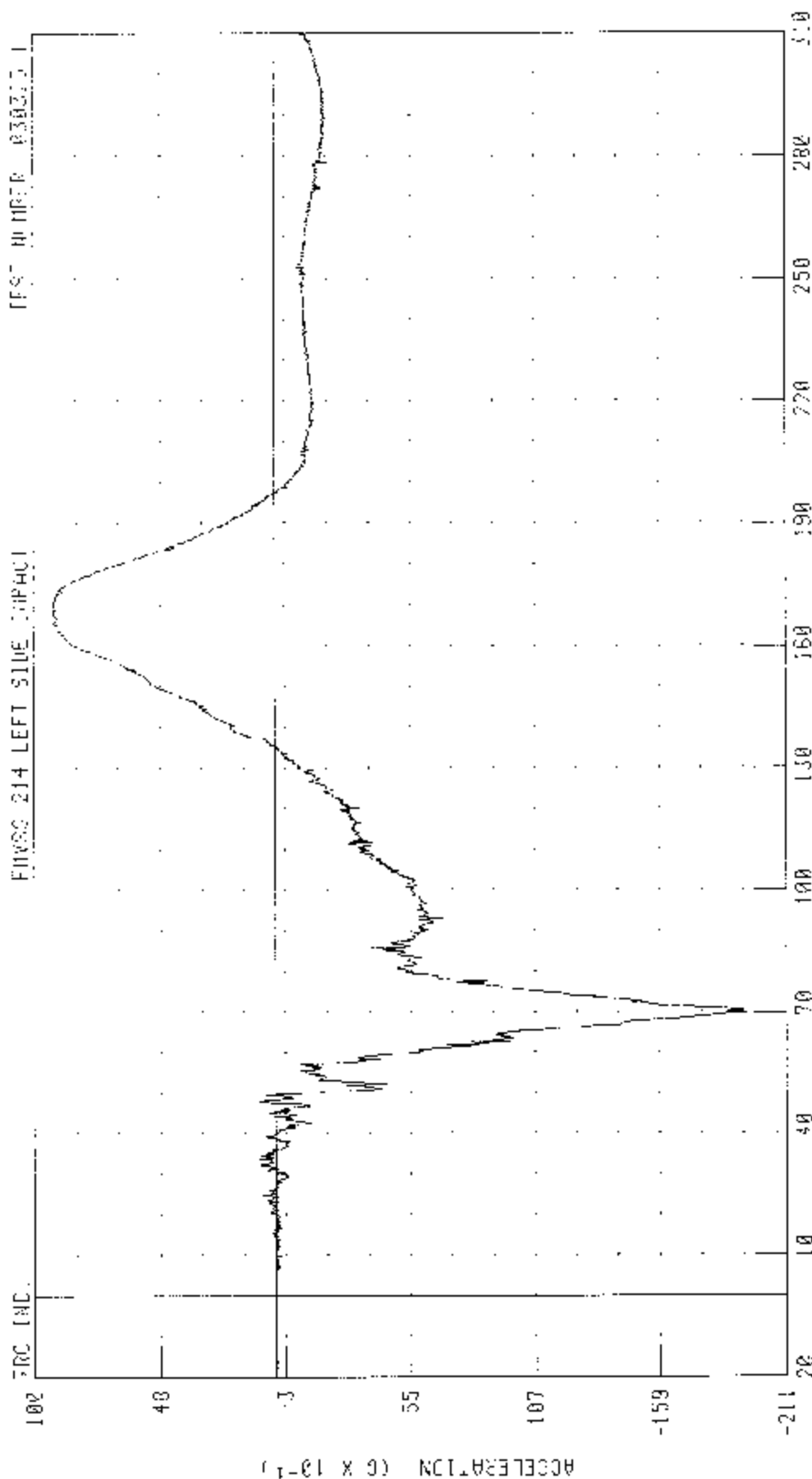
PEVYV1 40.85 KPH 33.00 MS; 0.00 X 11.0 0.00 MS

55/28 K24 00 CCGOFF SINE 12001 MOVING OFFROAD (T-PIPER) INTO LEFT SIDE OF 2003 FORDA ACCORD

LEFT BLUE PASSERKFF HEAD X-AXIS ACCELERATION

FINVSC 214 LEFT SIDE SHPACI

TEST NUMBER 030325-1

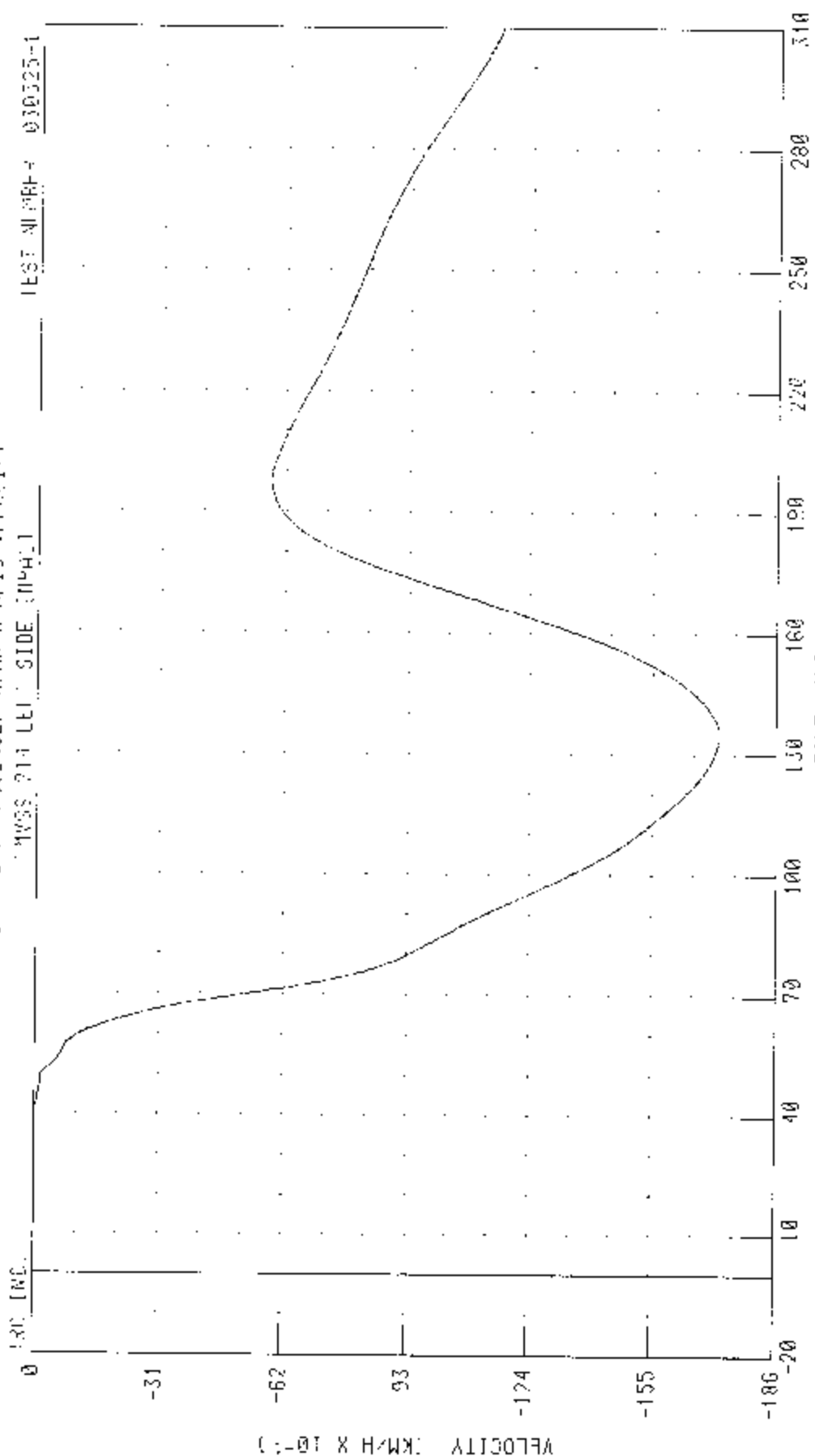


CHANNEL1 HFDXG4 FILTER: CH. CLPSS 1000

PLAK UN70 0 23 0 0 153 12 MS, -19 60 0 0 72 00 MS

55/28 KPH 40 DEGREE SIDE IMPACT MOVING DETECTABLE BARRIER INTO FILL SIDE OF 20% CIRCULAR CROWN

LEFT REAR PASSENGER HEAD X AXIS VELOCITY



TIME (MS)

CHANNEL JEDXV4 FILTER CH CLASS 180

PC4K BUF10 0.04 F10-H 0.30 20 MS, 17 15 KHZ/P 0.130 20 MS

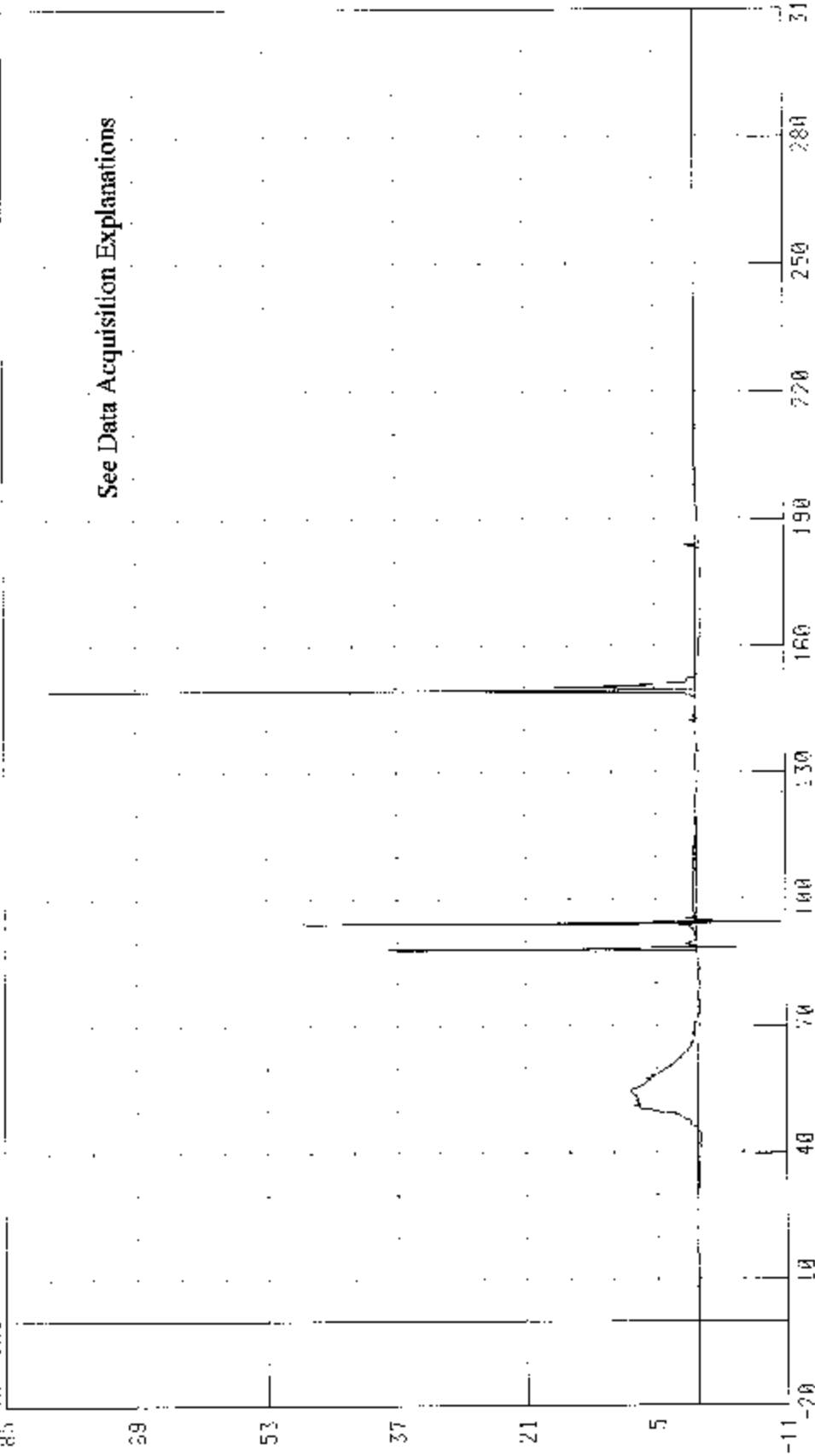
55/28 MPH 90 DEGREE SIDE IMPACT MOVING DEFLECTOR - PASSENGER INTO LEFT SIDE OF 2003 HONDA CIVIC

FBI REAR PASSENGER SEAT 7-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-2

TRC INC



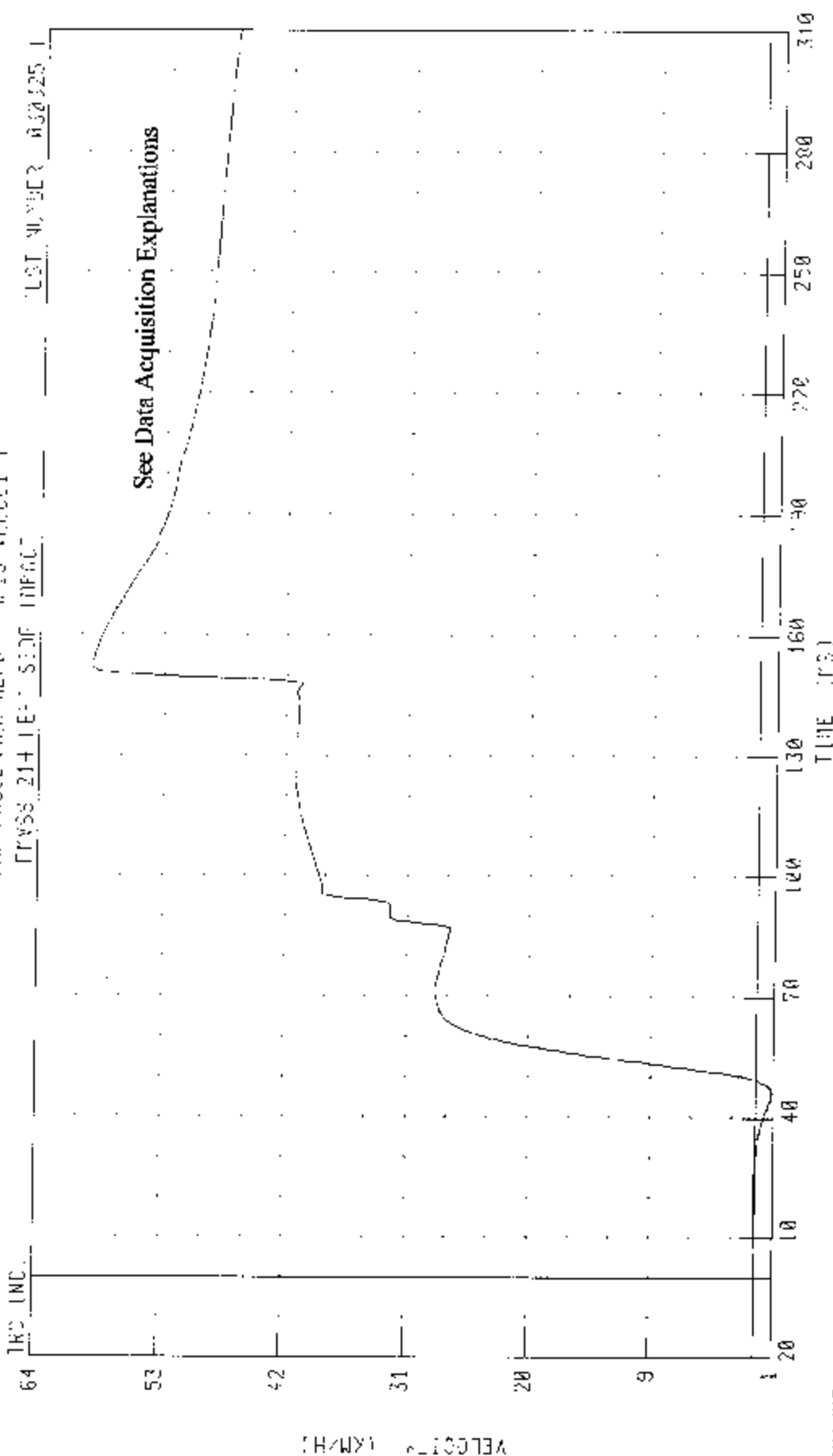
ACCELERATION (G x 10⁻³)

TIME (MS)

CHANNEL: HEDYC4 FILTER: CH CLASS 10000

PERCENTAGE: 79.3 24 0 0 149 36 MS 100 10 0 0 94 77 MS

55/28 KPH 90 DEGREE SLIDE IMPACT (CONVULS. TIFORMATION BARRETT) INTR. LEFT SIDE OF 2003 HONDA ACCORD
LEFT REAR PASSENGER HEAD X-AXIS VELOCITY



TRC INC.

CLASS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1

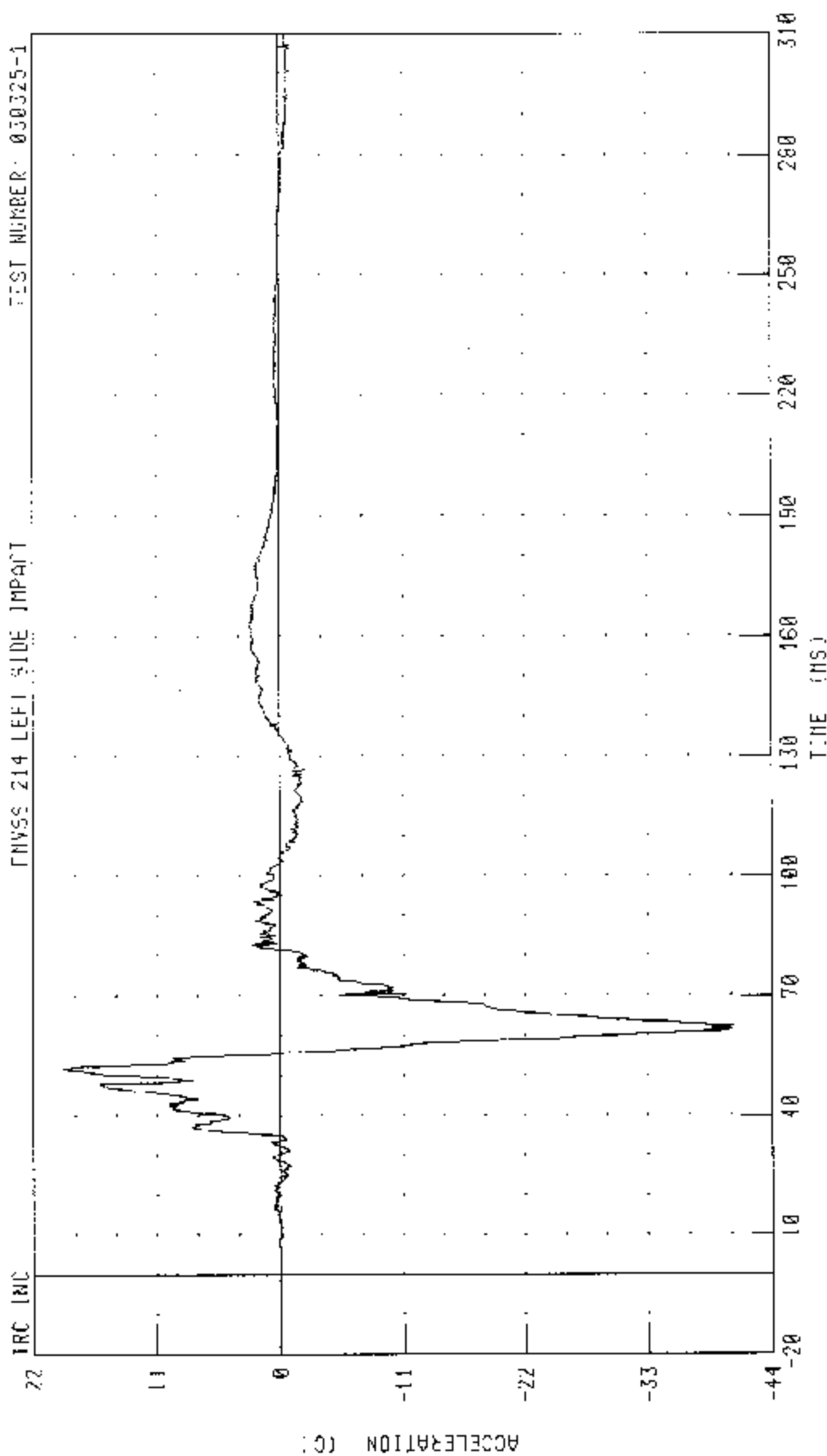
TIME (MS)

CHANNEL: HFDVY4 FILTER: CH CLASS 180

PEAK DATA: 58.77 KPH @ 152.72 MS; 1.46 KPH/11 @ 45.92 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 1983 HONDA ACCORD
 LEFT REAR PASSENGER HEAD Z-AXIS ACCELERATION

TRC INC
 FMVSS 214 LEFT SIDE IMPACT TEST NUMBER: 030325-1

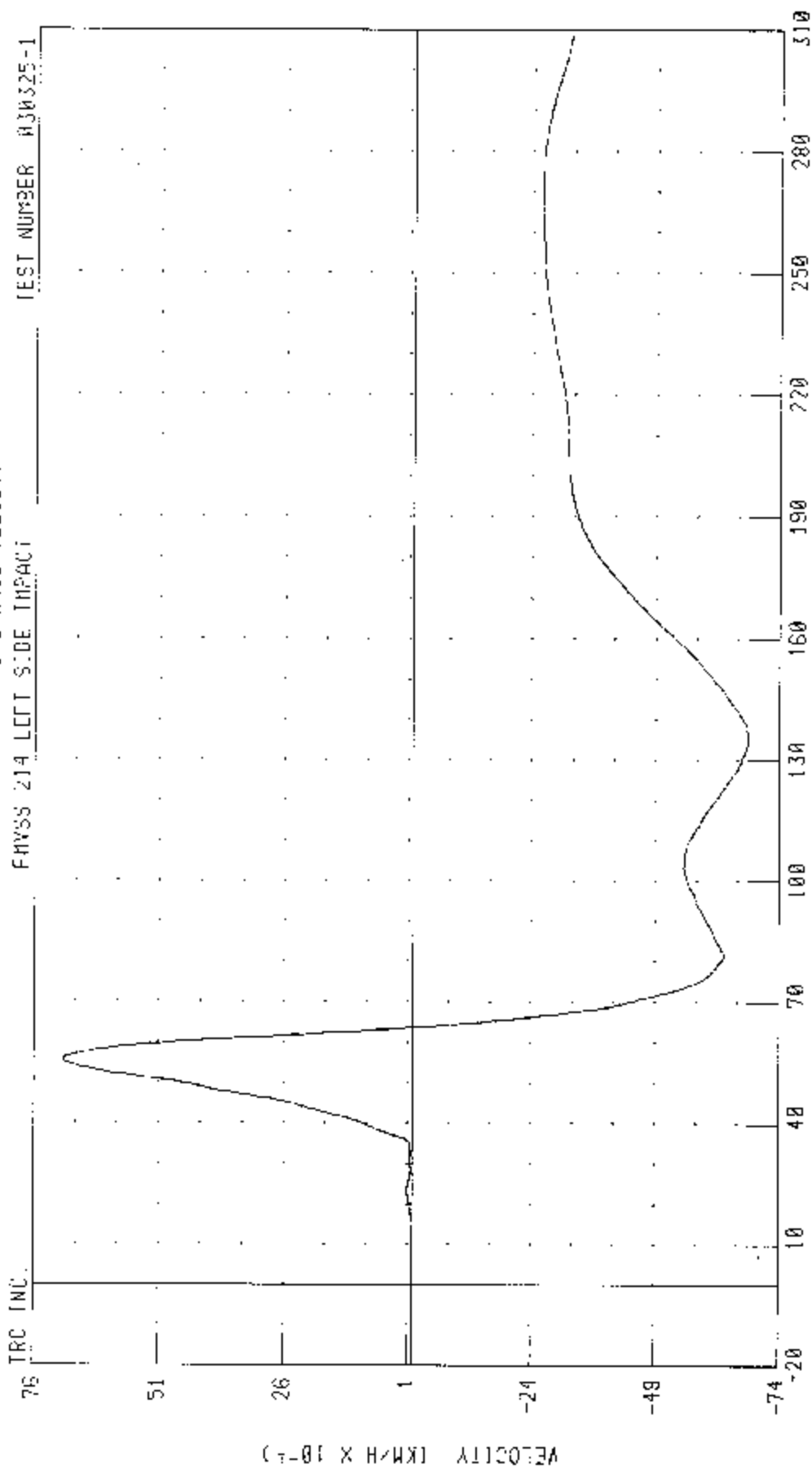


CHANNEL: HEDZG4 FILTER: CH CLASS 1000

PEAK DATA: 19.41 G @ 51.60 MS, -40.48 G @ 61.34 MS

55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO THE SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER HEAD Z AXIS VELOCITY



CHANNEL HF07V4 FILTER: CH. CLASS 180

PEAK DATA:

7 01 KM/H @ 55.76 MS, -6.77 KM/H @ 135.36 MS

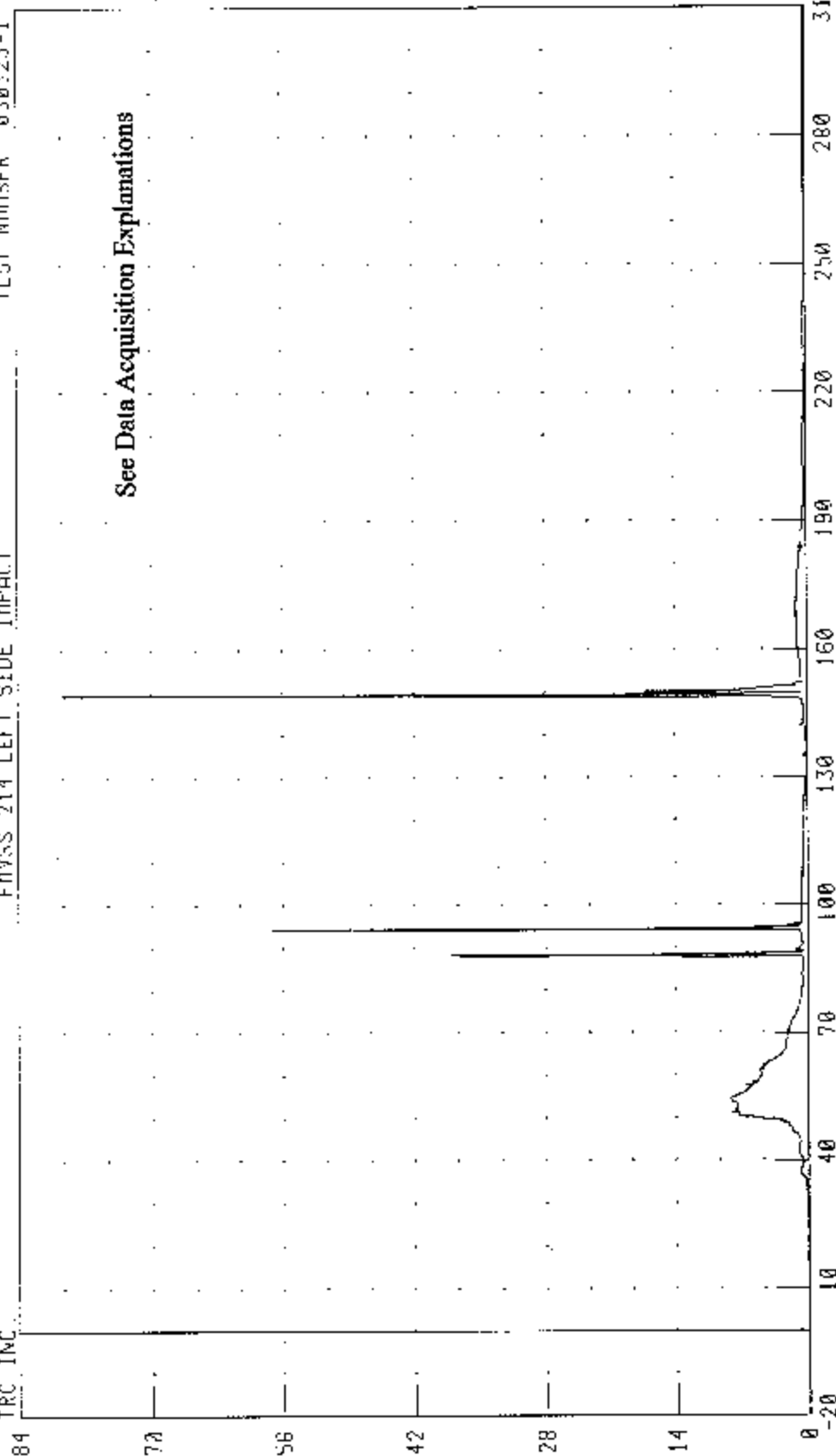
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER HEAD RESULTANT ACCELERATION

TEST NUMBER 030325-1

HYSS 214 LEFT SIDE IMPACT

TRC INC



ACCELERATION (G X 10⁴)

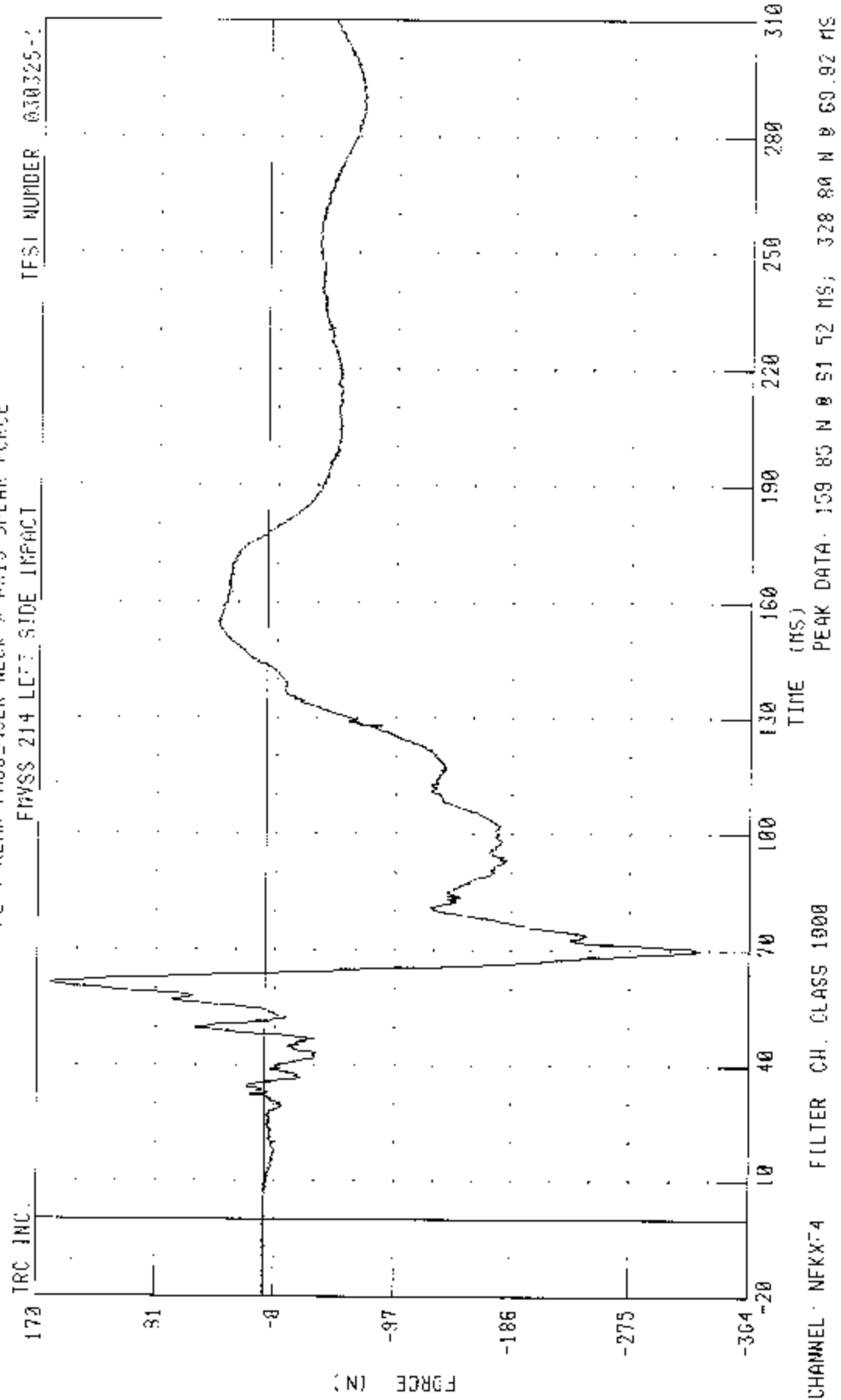
TIME (MS)

CHANNEL: HEDRC4 FILTER: CH. CLASS 1000

PEAK DATA: 793.25 G @ 140.30 MS, 0.01 G @ -17.44 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE CARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER NECK X-AXIS SHEAR FORCE



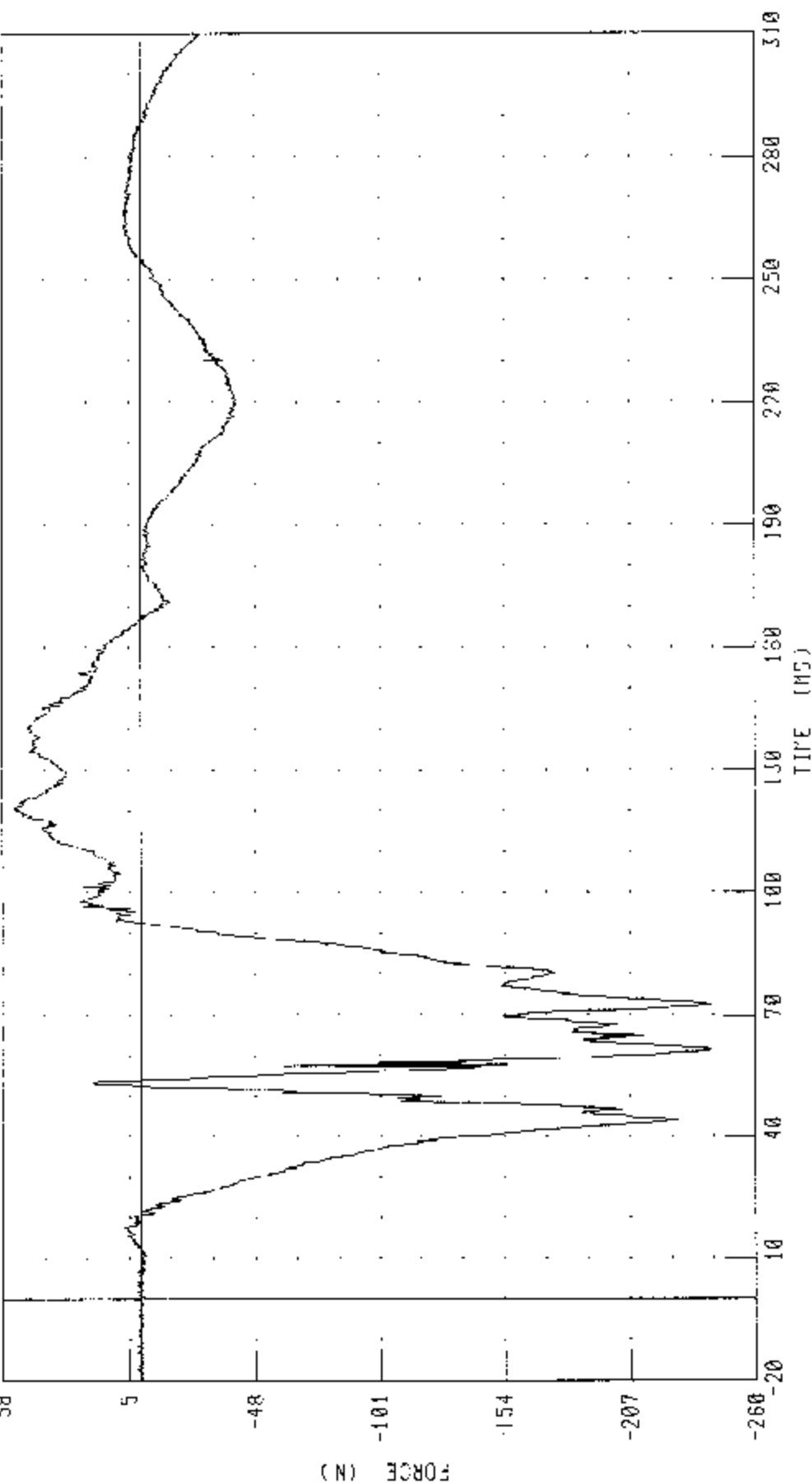
55/28 KP4 80 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER NECK Y-AXIS SHEAR FORCE

TEST NUMBER 030325-1

FPVSS 214 LEFT SIDE IMPACT

TRC INC.



TIME (MS)

CHANNEL: NEKYF4 FILTER: CIL CLOS: 000

PEAK DATA: 53.01 N @ 120.00 MS, 241.30 N @ 61.44 MS

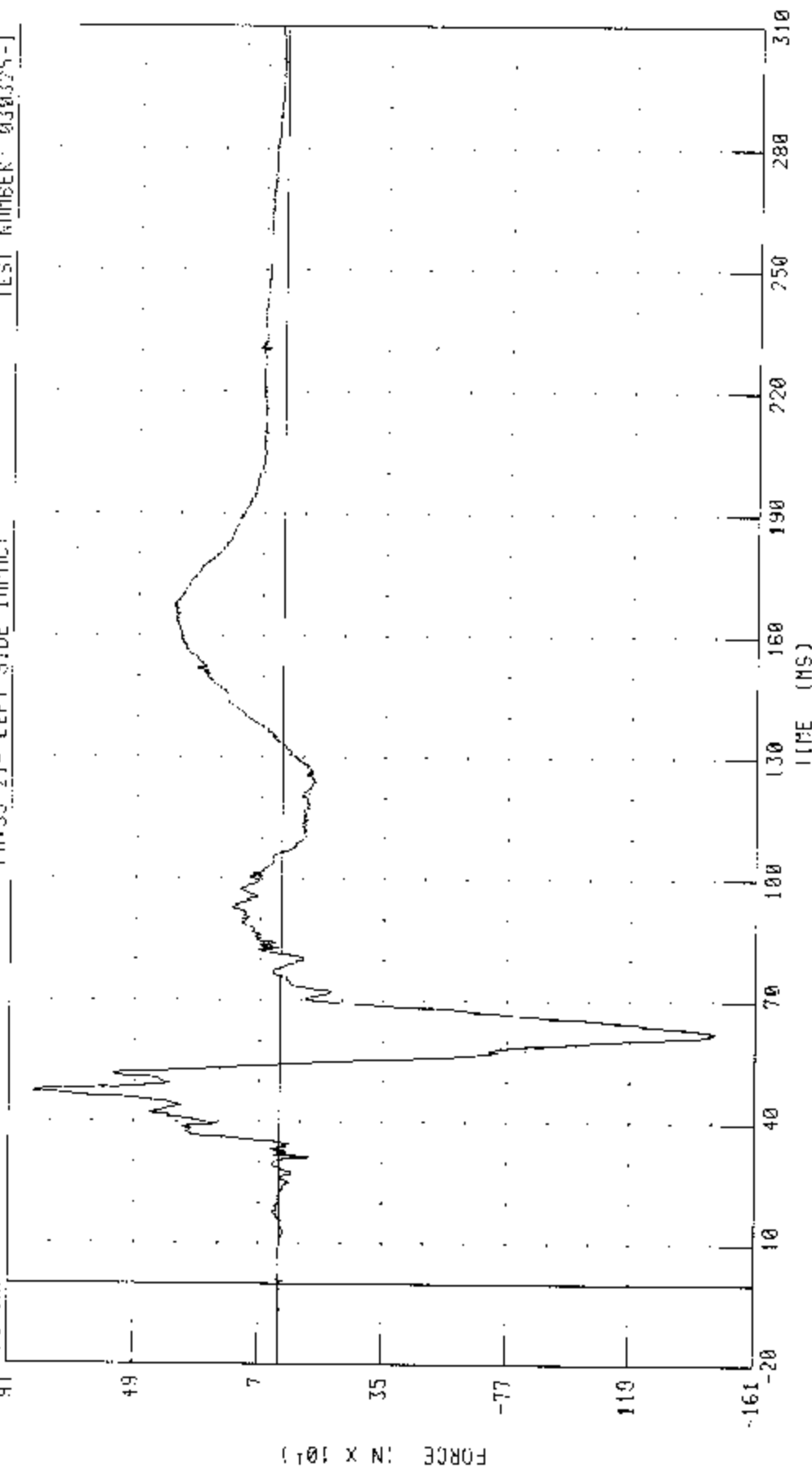
55/28 KPH 90 DEGREE SIDE IMPACT INVOLVING DEFORMABLE BARRIER: INTO LEFT SIDE OF 2003 FORDA ACCORD

LEFT REAR PASSENGER NECK Z-AXIS AXIAL FORCE

TRC INT

PHYS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



TIME (MS)

CHANNEL NEKZF4 FILTER CH CLASS 1000

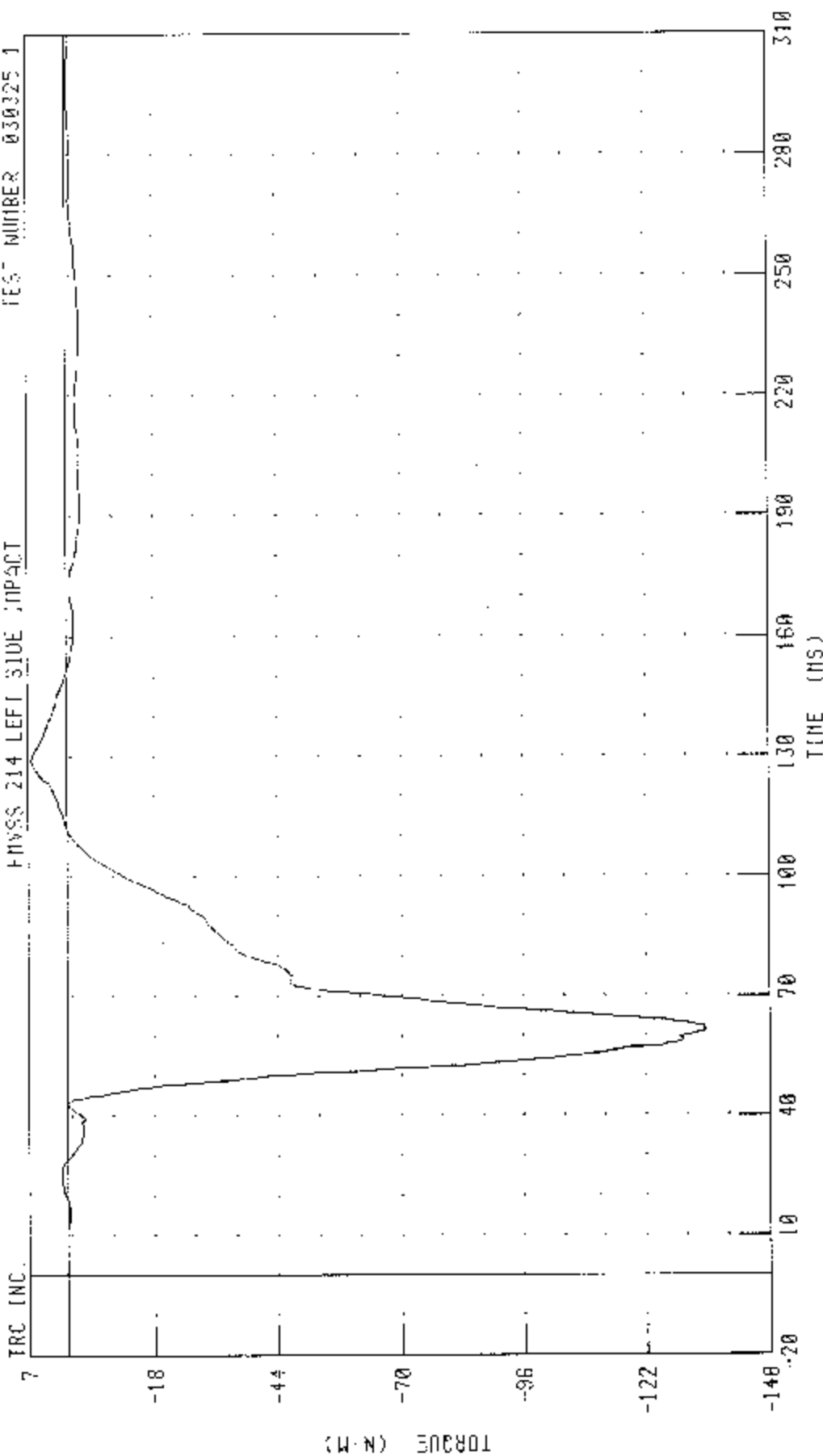
PEAK DATA 029.18 N @ 47.00 MS; -1277.82 N @ 62.24 MS

55/28 MPH 30 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2001 HONDA ACCORD

LEFT REAR PASSENGER NECK MOMENT ABOUT X AXIS

TEST NUMBER 030325-1

FMVSS 214 LEFT SIDE IMPACT

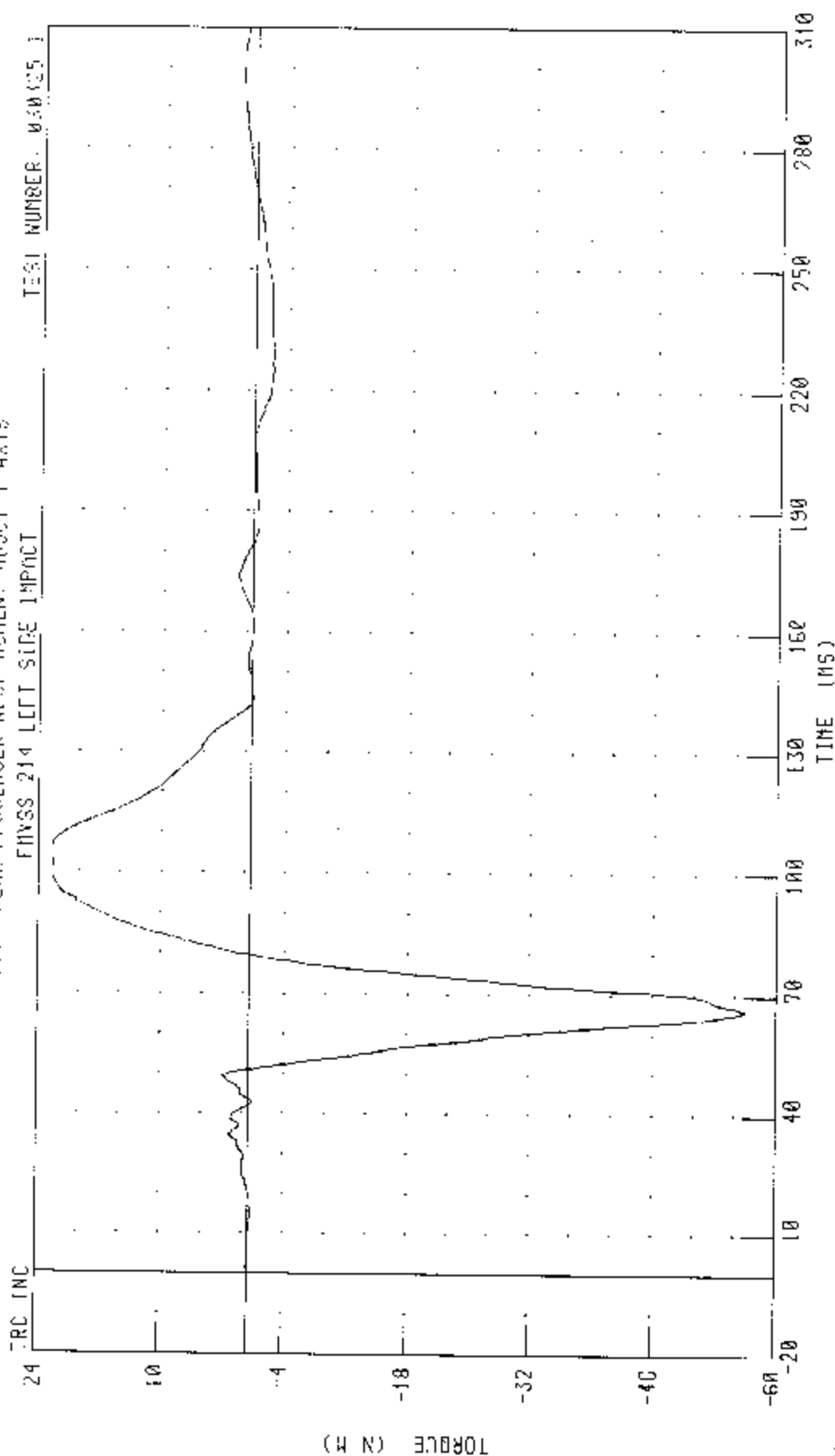


TIME (MS)

PEAK DATA: 7 25 N-M @ 129.20 MS, -134 60 N-M @ 61.44 MS

CHANNEL: NEX114 FILTER: CH CLASS 600

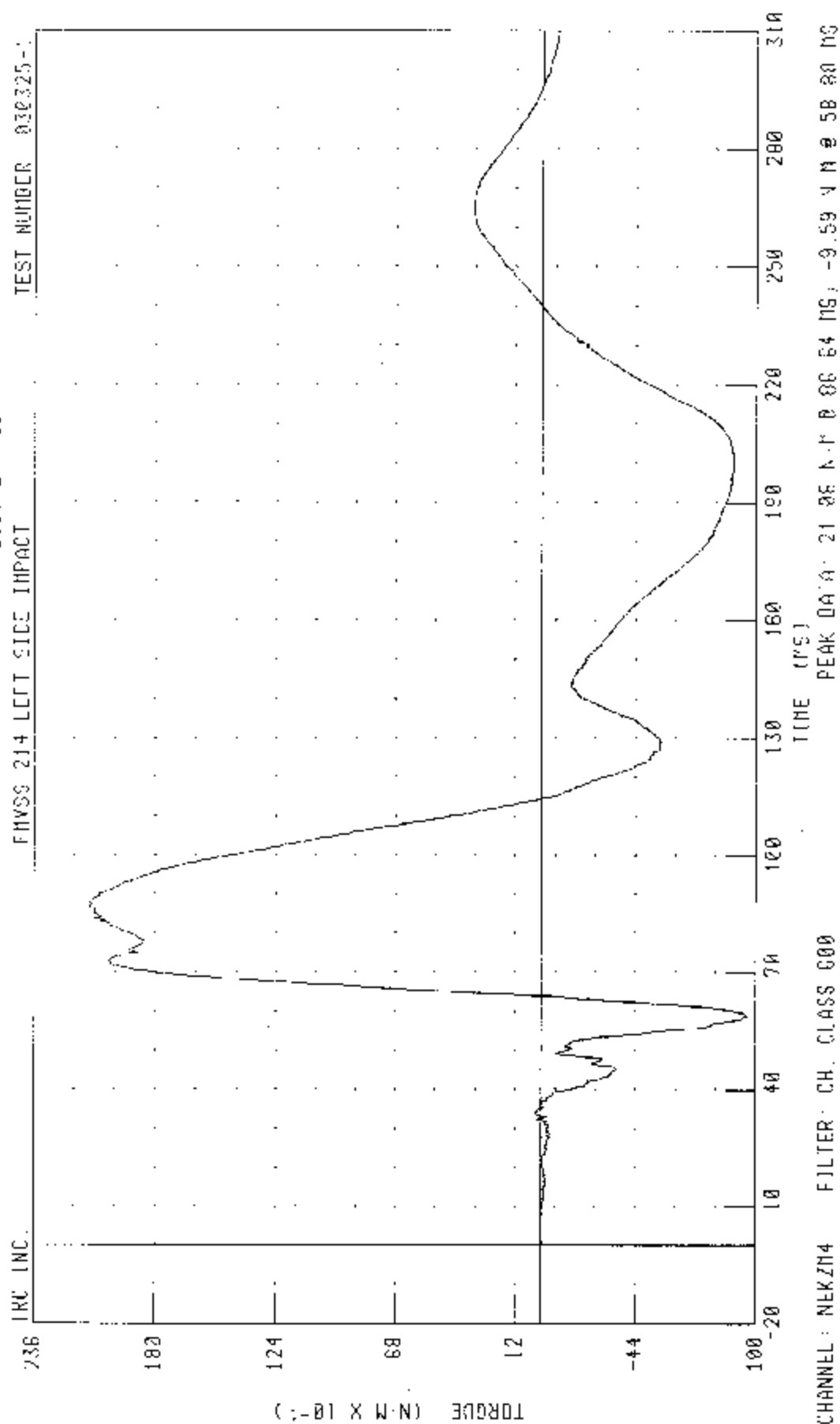
55/28 KPH 30 DEGREE SIDE IMPACT INVOLVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2000 HONDA ACCORD
LEFT PEAK PASSENGER NECK MOMENT ABOUT Z AXIS



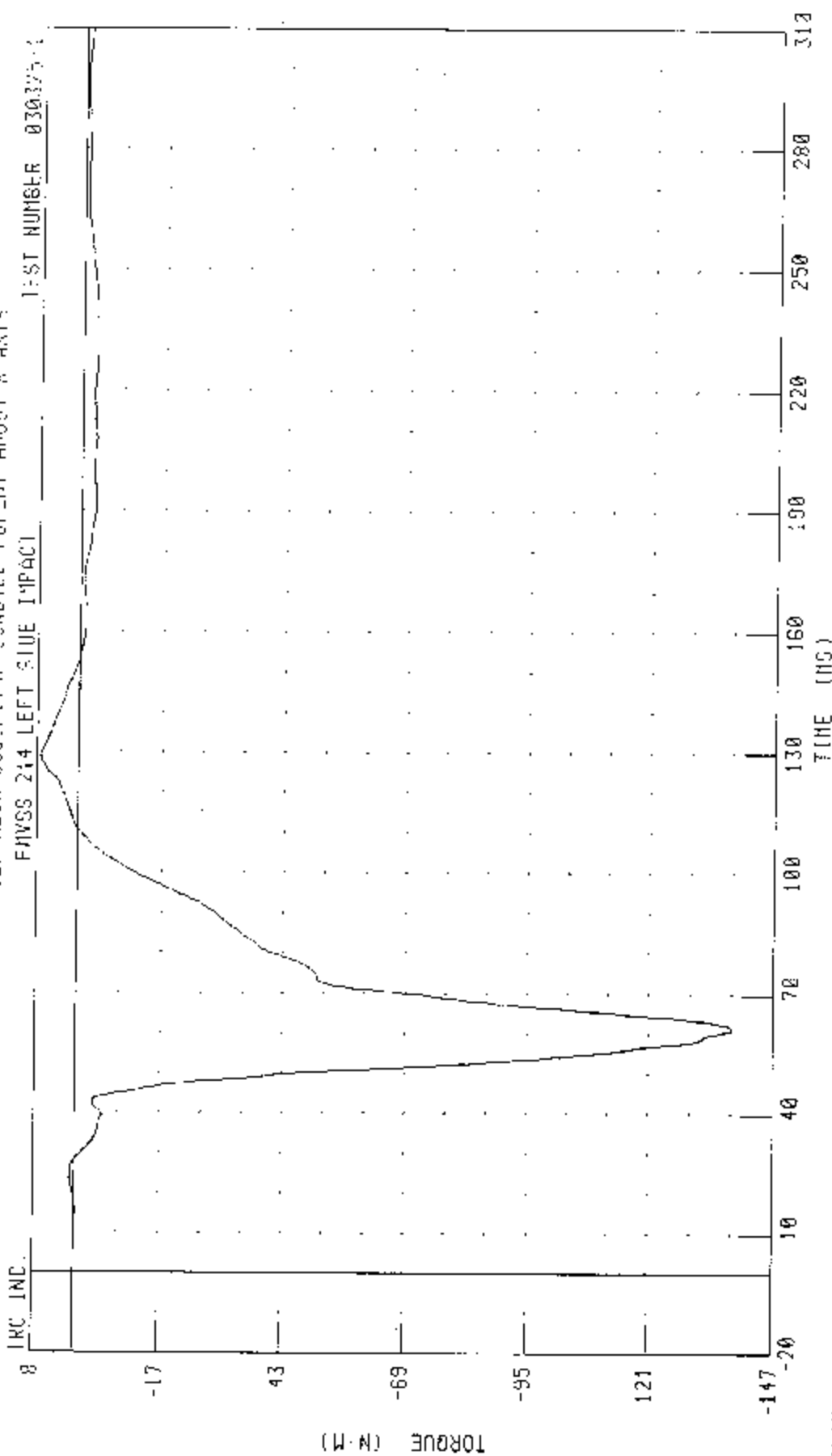
CHANNEL: NEXM4 FILTER CH CLASS 600

PEAK DATA 22.47 N M @ 104.16 MS: -55.42 N.M @ 66.16 MS

55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
LEFT REAR PASSENGER NECK MOMENT ABOUT Z AXIS



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER NECK OCCUPANT CONDYLE FURTHER ABOUT X AXIS



CHANNEL: NK0XN4 FILTER CH CLASS 600

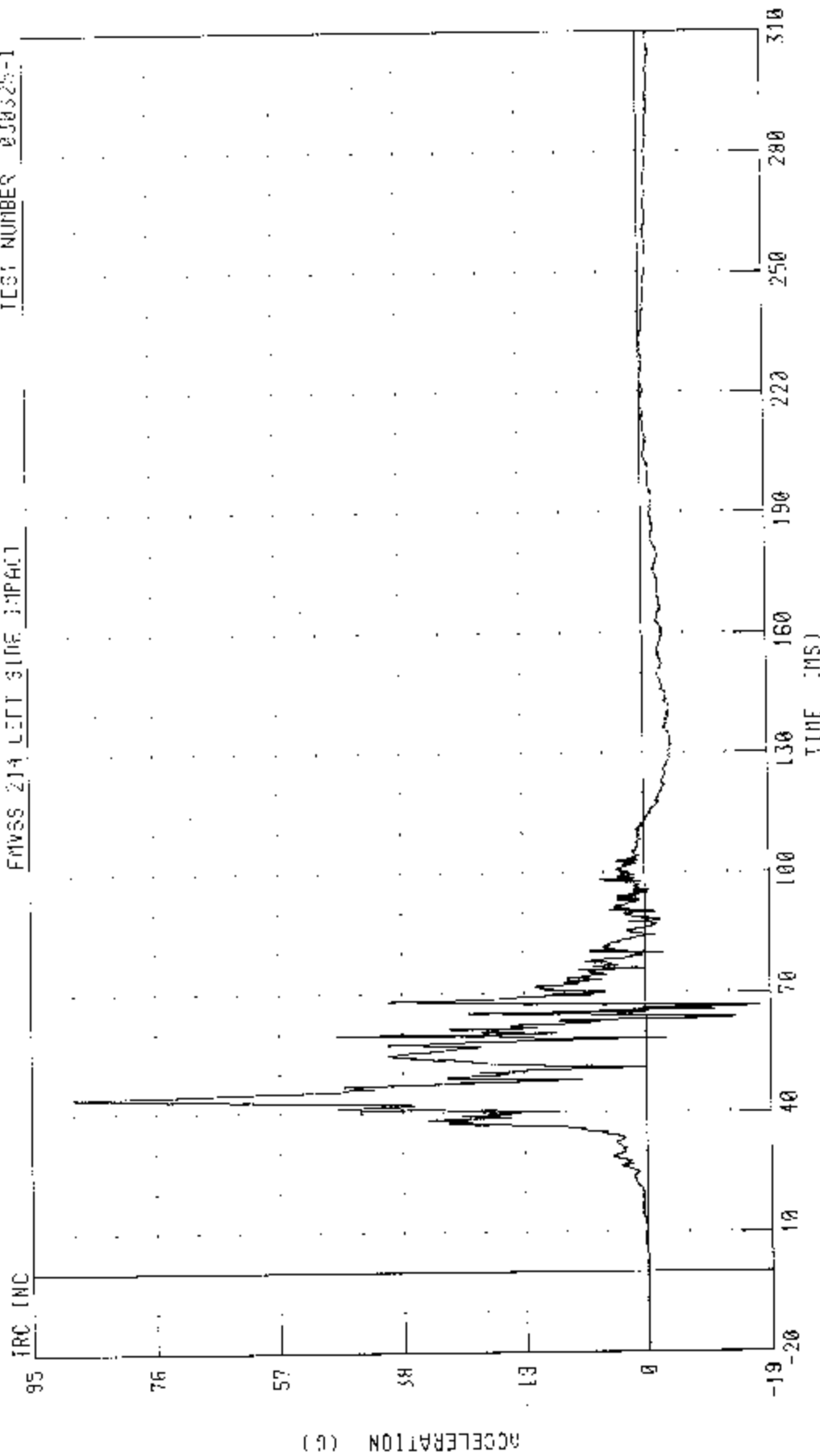
PEAK DATA: 7.80 N M @ 129.28 MS; -138.97 N-M @ 61.44 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION

TEST NUMBER 030325-1

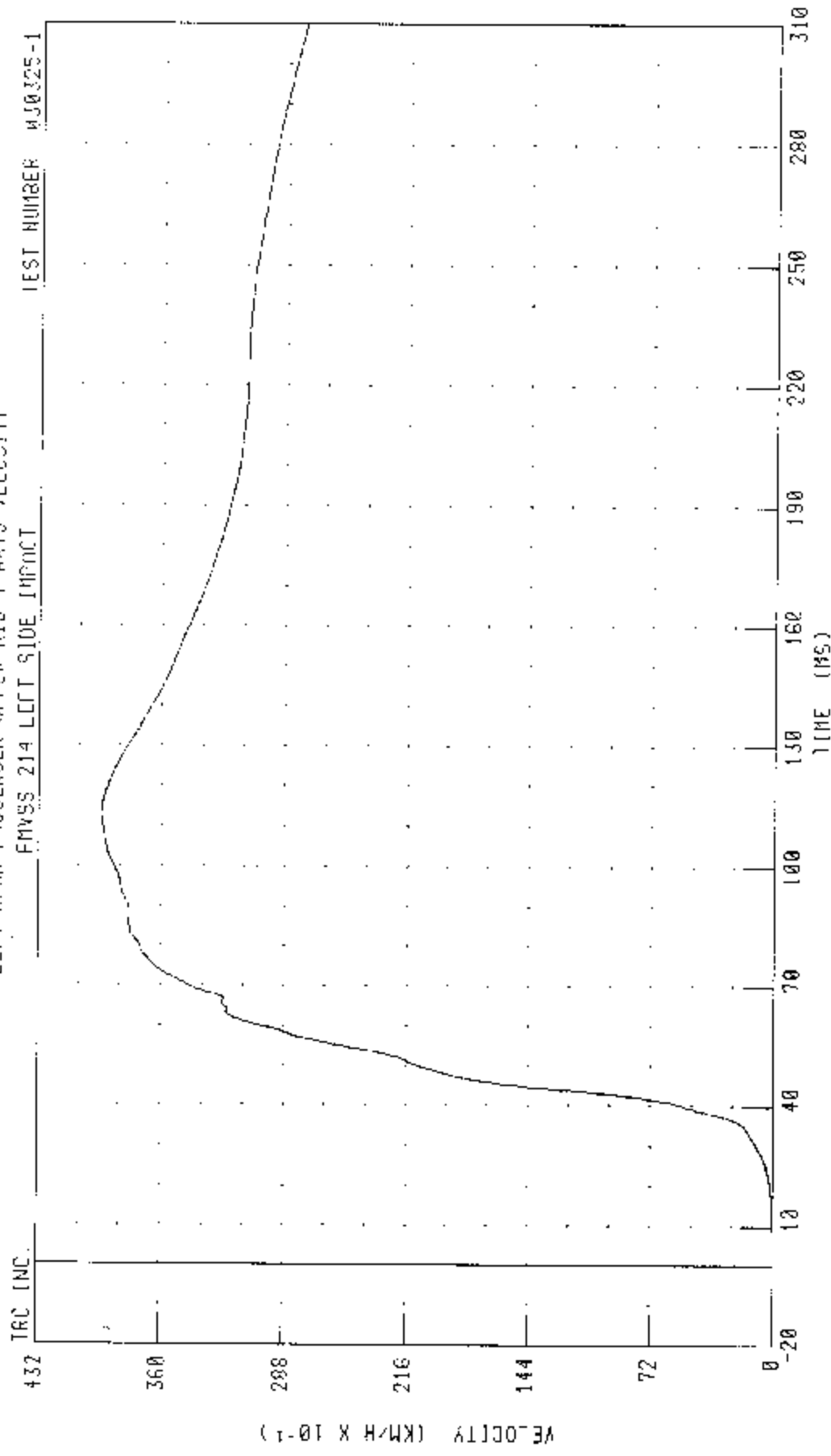
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: LURYC4 FILTER: CL. CLASS 1800

PEAK DATA: 88.63 G @ 43.92 MS, -17.48 G @ 66.72 MS

54/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER UPPER RIB Y-AXIS VELOCITY



CHANNEL: LURYV4 FILTER: CH CLASS 180 PFAK 041A: 39.47 KM/H @ 112.88 MS; 0.00 KM/H @ 0.00 MS

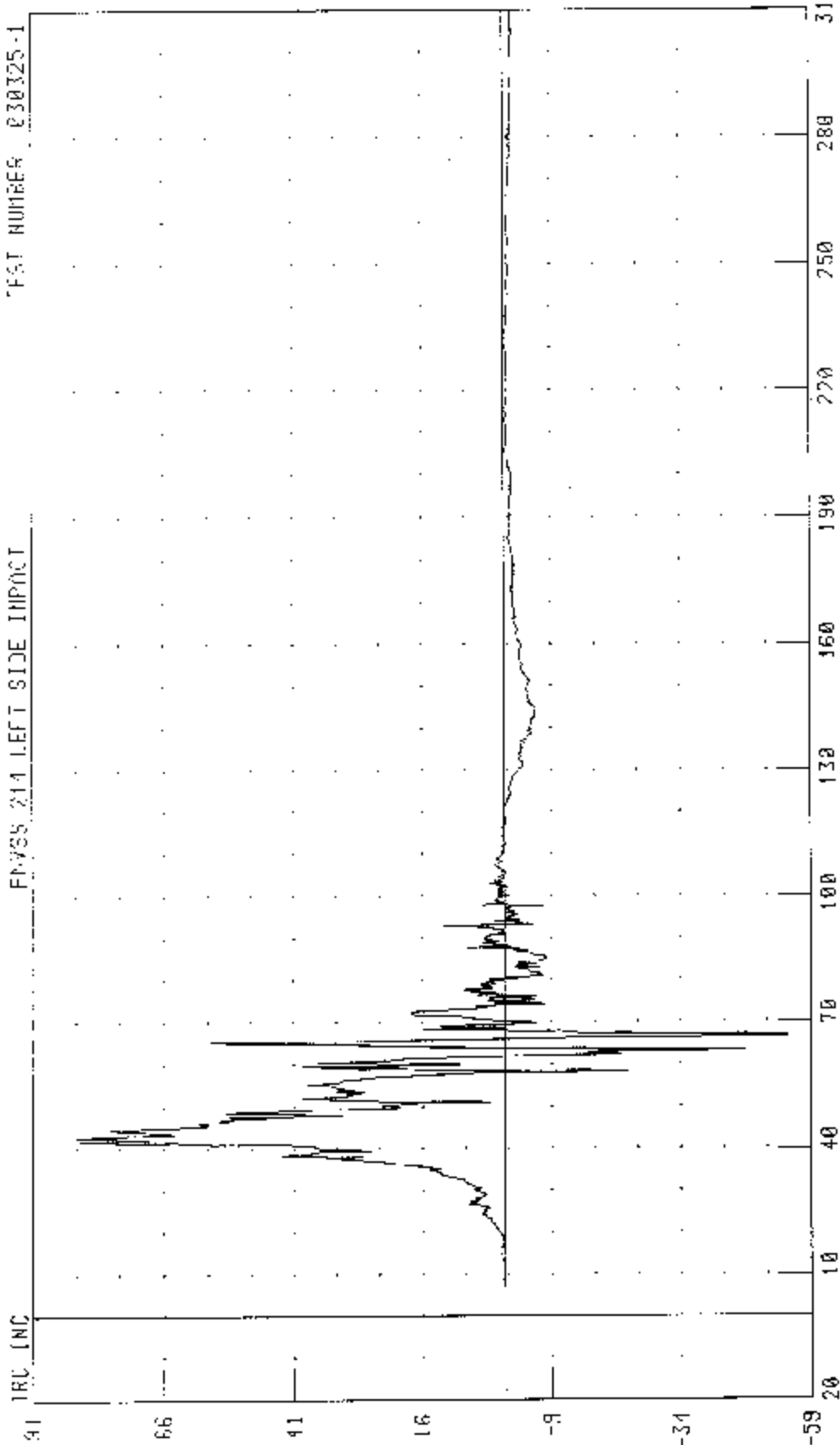
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION

TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

TRC (NC)



ACCELERATION (G)

030325-1

CHANNEL LLRYC4 FILTER: CH. CLASS 1000

TIME (MS)

PEAK DATA: 92.59 S @ 42.96 MS: -54.54 G @ 66.64 MS

55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFURABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER LOWER RIB (-X) VELOCITY

TRC INC.

SNVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1

VELOCITY (KM/H X 10⁻¹)

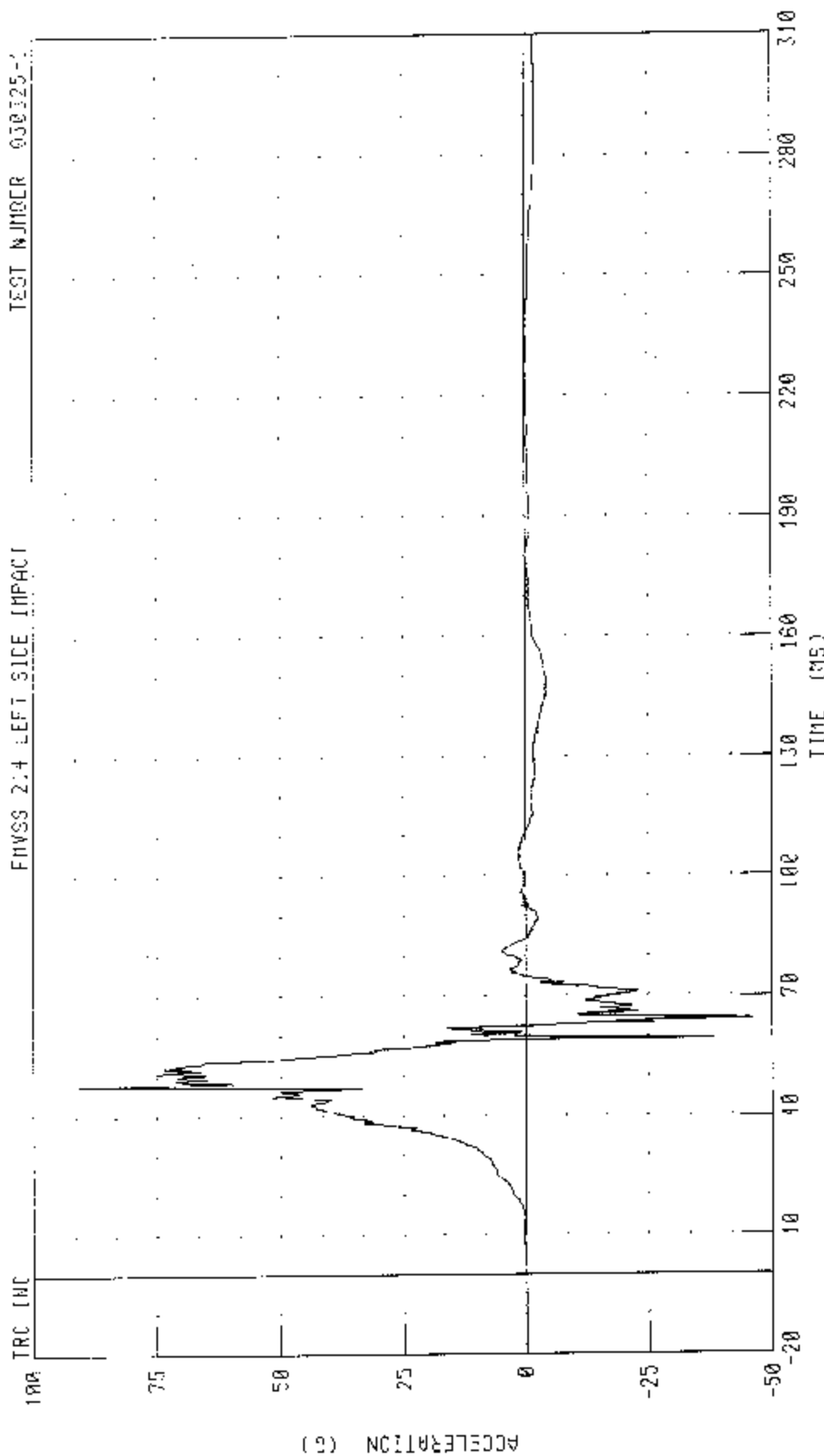
TIME (MS)

CHANNEL: LLRYV4 FILTER: CH CLASS 100

PEAK DATA 37.99 KM/H @ 80.16 MS; 0.00 KM/H @ 0.00 MS

55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

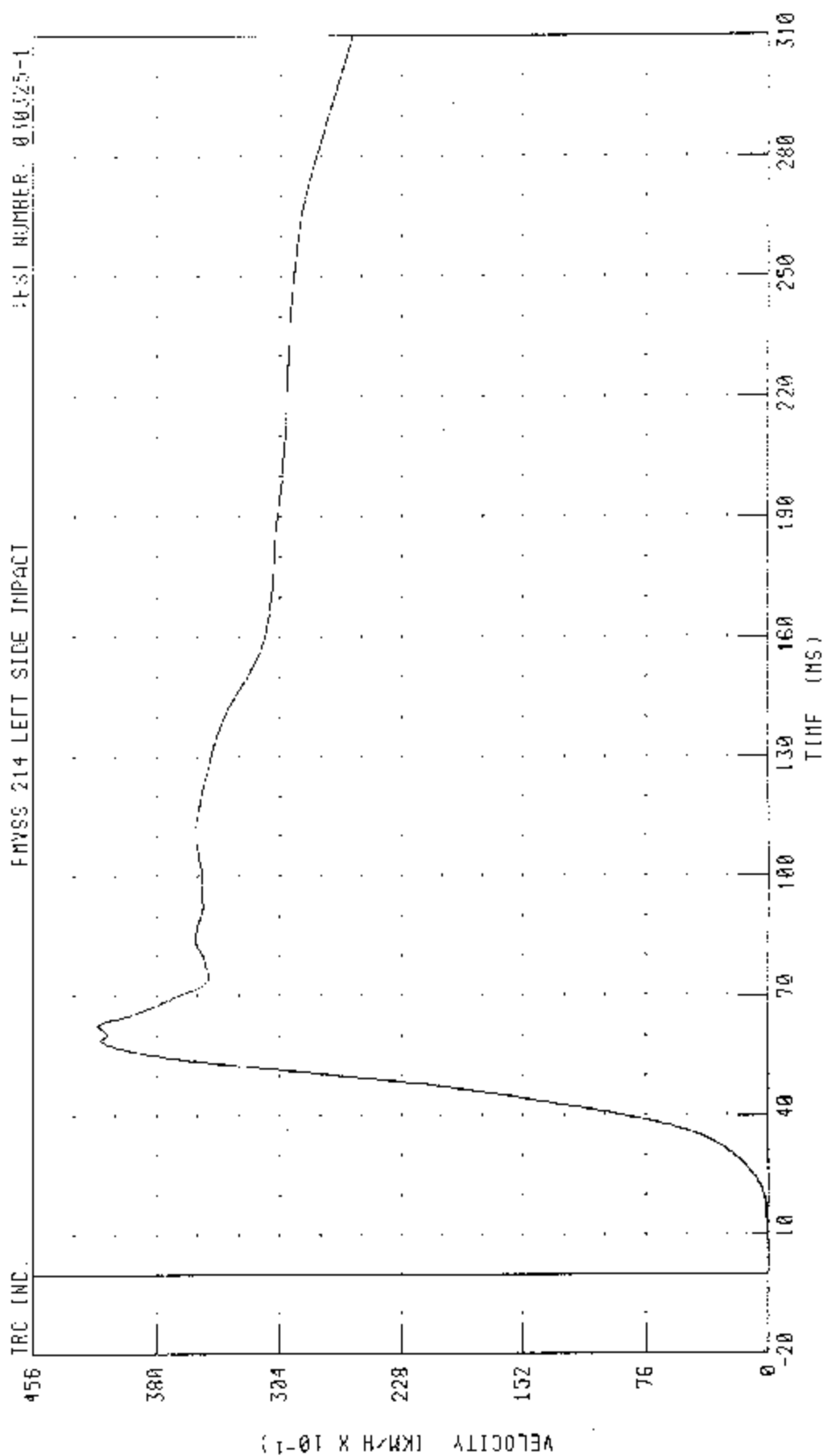
LEFT REAR PASSENGER LOWER SPINE Y AXIS ACCELERATION



CHANNEL 112YG4 FILTER CH CLASS 1000

PEAK DATA 91.03 G @ 47.84 MS; -15.94 G @ 64.16 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING, DEFORMABLE RIGID) INTO LEFT SIDE OF 2003 HONDA ACCORD
LEFT REAR PASSENGER LOWER SPINE Y AXIS VELOCITY



CHANNEL: T12V4 FILTER: CH. CLASS 1B0

PEAK DATA: 11.60 KM/H @ 62.64 MS, 0.00 KM/H @ 0.00 MS

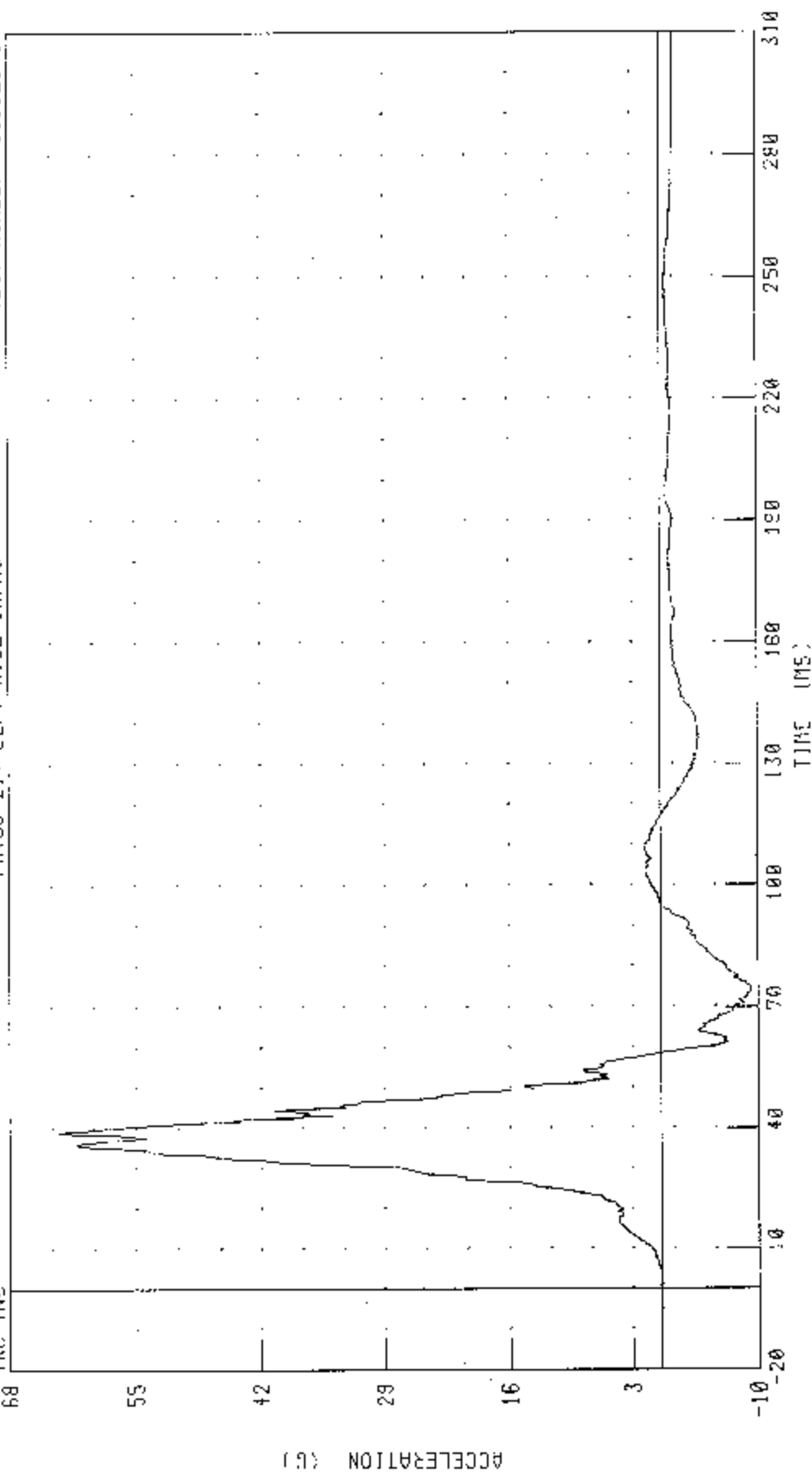
55/28 <PH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION

TEST NUMBER 030325-1

FMVSS 214 LEFT SIDE IMPACT

TRC INC



CHANNEL PEVYC4 FILTER: CH CLASS 1000

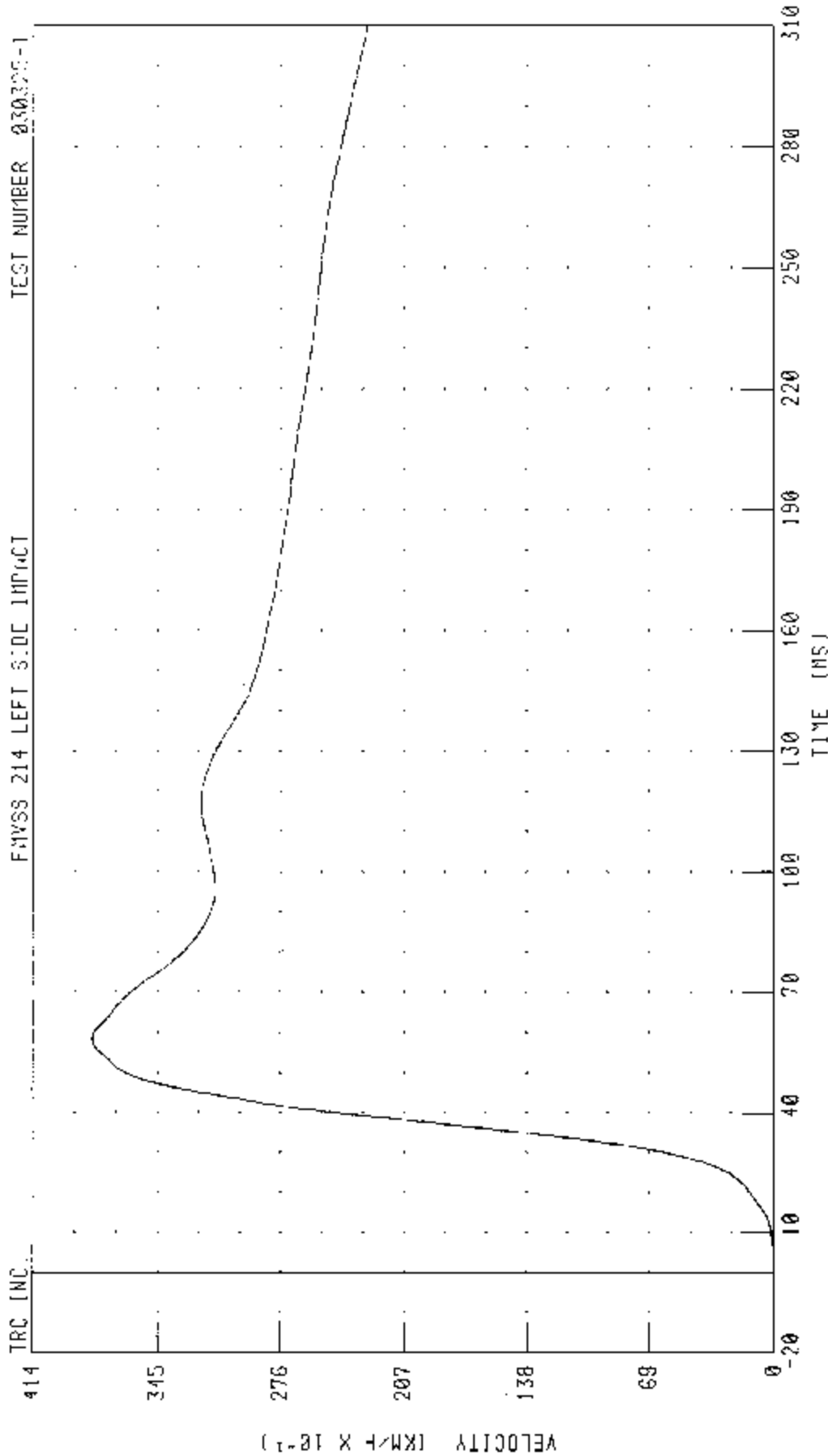
PEAK DATA 63 06 6 0 30 04 MS, 0.35 G 0 73 63 MS

55/28 KPH 30 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER PELVIS X-AXIS VELOCITY

ENVSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



CHANNEL: PEYV01 FILTER CH CLASS 180

PEAK DATA: 38 17 KM/H @ 58 56 MS, 0.00 KPH @ 0.00 MS

Driver and Passenger Dummy Instrumentation Plots

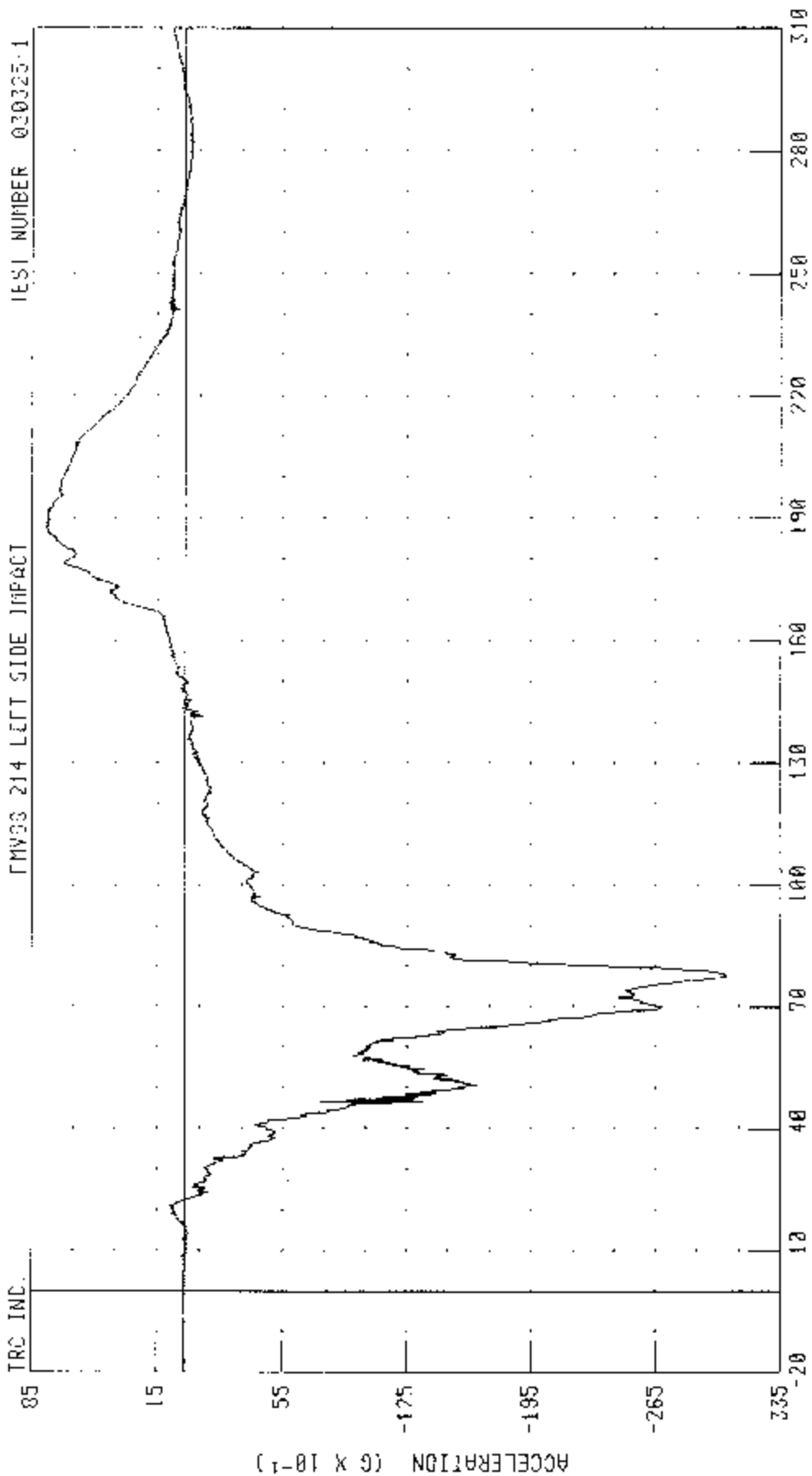
55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER HEAD X-AXIS FORWARD ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER Q30325-1

TRC INC.



CHANNEL: HEADX1 FILTER: CH. CLASS 1000

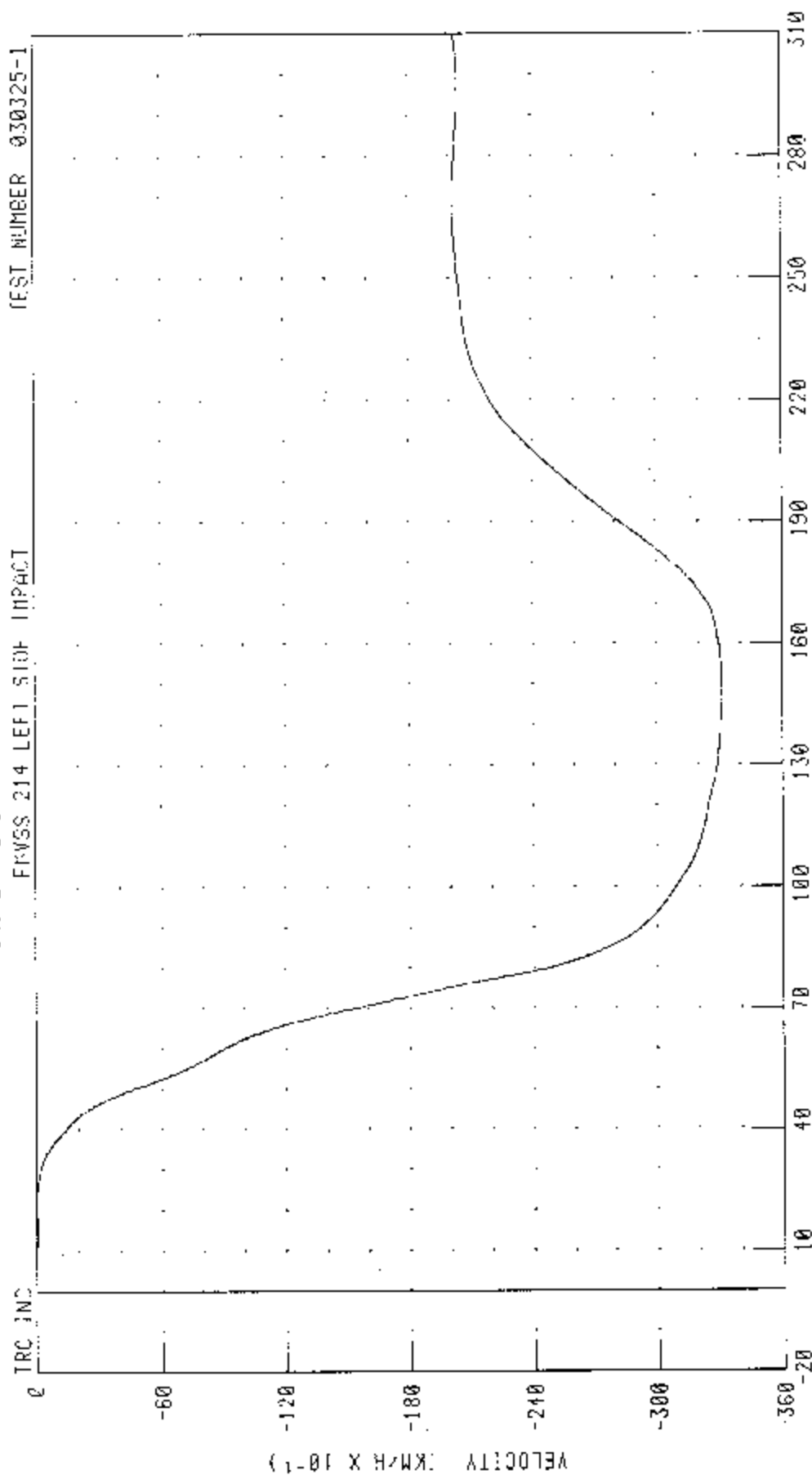
PEAK DATA: 7.75 G @ 188.16 MS, -30.46 G @ 77.84 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER HEAD X AXIS REDUNDANT VELOCITY

TEST NUMBER 030325-1

FWSS 214 LEFT SIDE IMPACT



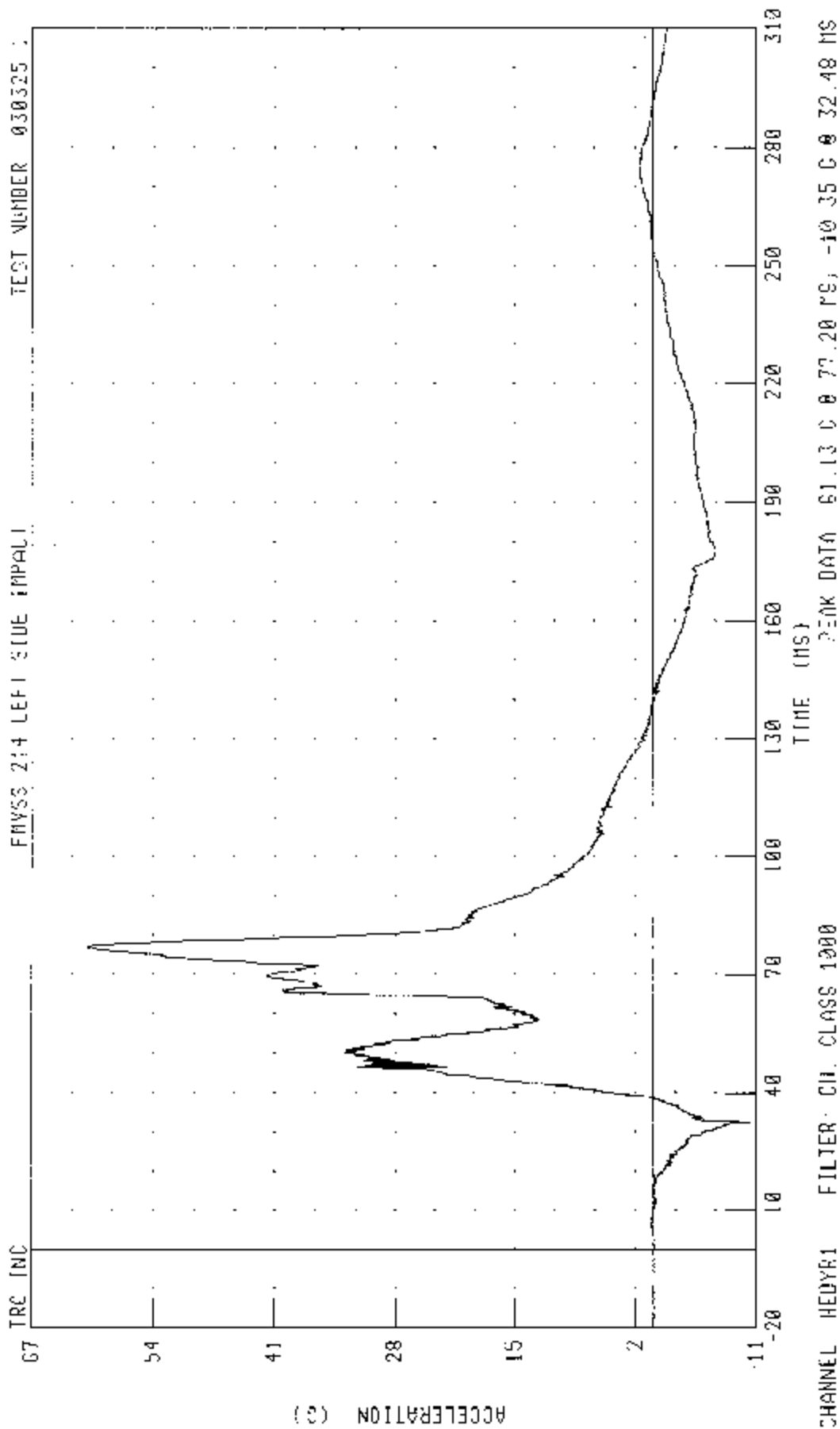
TIME (MS)

PEAK DATA 0.06 KN/H @ 22.56 MS; -33.15 KN/H @ 147.52 MS

CHANNEL: HEDXVI FILTER: CH. CLASS 180

55/20 MPH 90 DEGREE SIDE IMPACT INVOLVING DEFORMABLE BARRIER INTO FFT SIDE OF 2003 HUNTER ACCURON

DRIVER HEAD Y-AXIS REDUNDANT ACCELERATION



55/20 KM/H 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 DRIVER'S HEAD Y-AXIS REDUNDANT VELOCITY

TEST NUMBER 030325-1

FHVSS 214 LEFT SIDE IMPACT

TRC INC

57

47

37

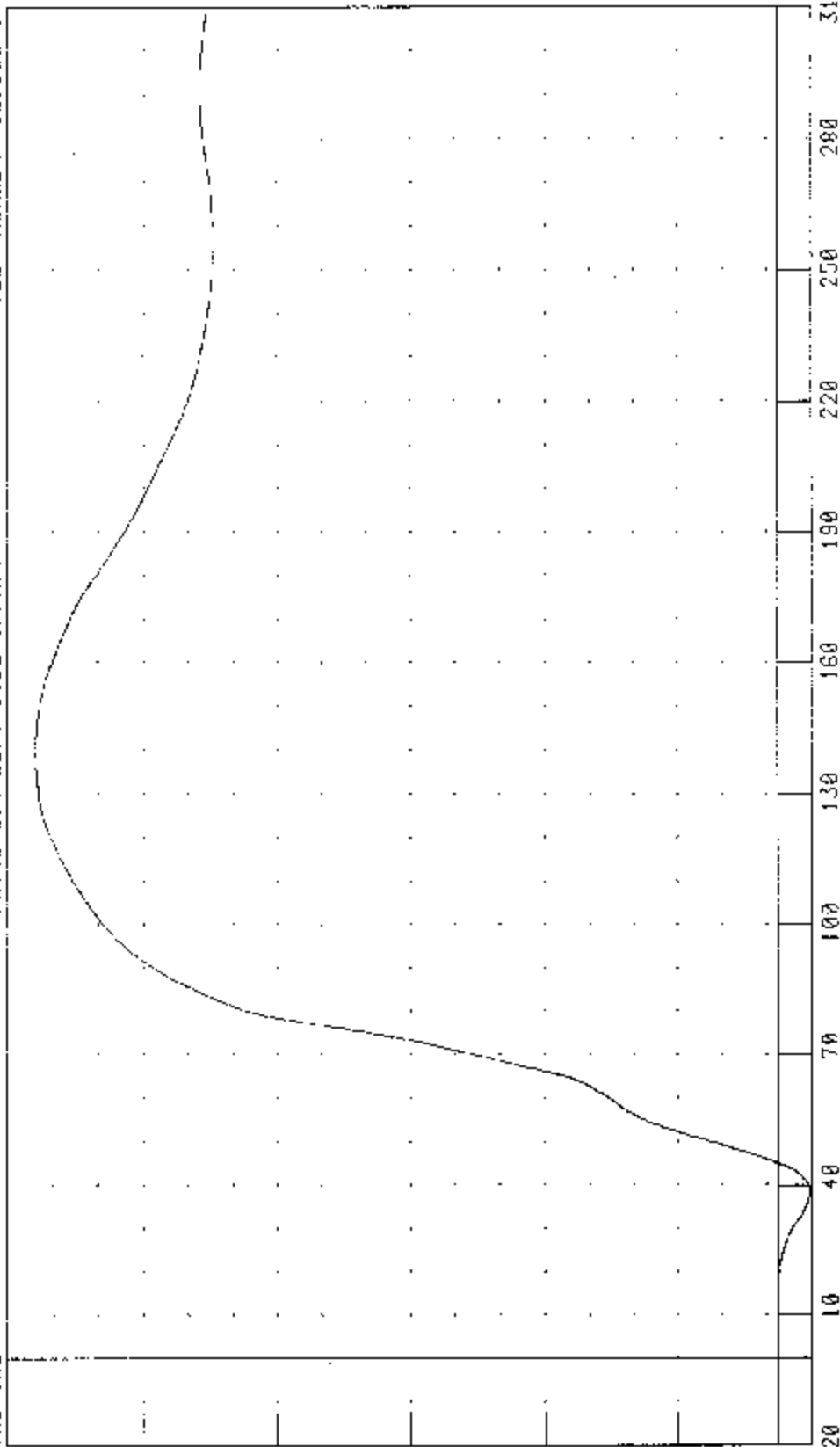
27

17

7

-2

VELOCITY (KM/H)



TIME (MS)

PEAK DATA: 55.39 KM/H @ 139.36 MS; -2.36 KM/H @ 38.72 MS

CHANNEL: HF00VT FILTER: CIL CLASS 180

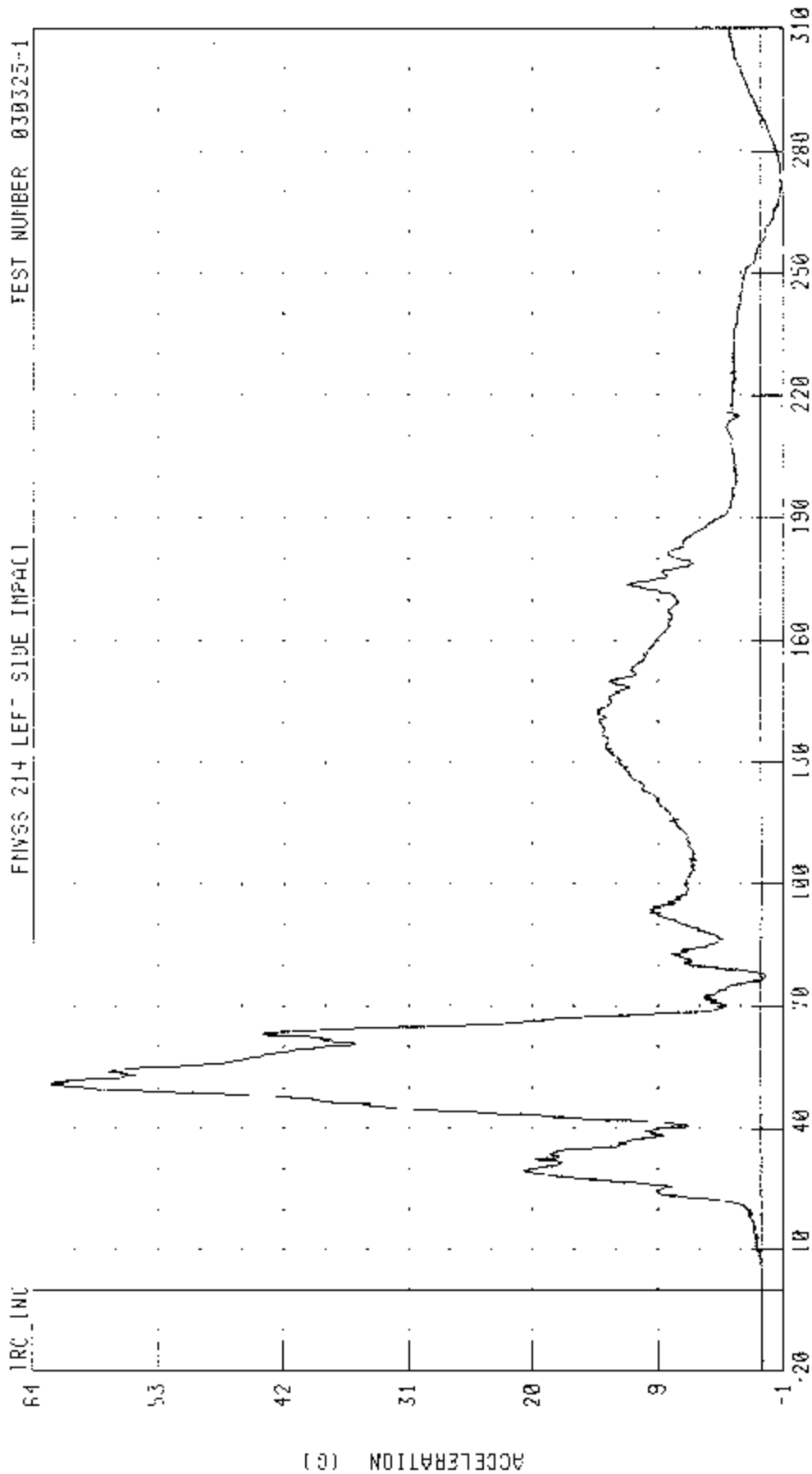
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE RE 2003 HONDA ACCORD

DRIVER HEAD Z-AXIS REDUNDANT ACCELERATION

TEST NUMBER 030325-1

FNVS 214 LEFT SIDE IMPACT

IRC_INC



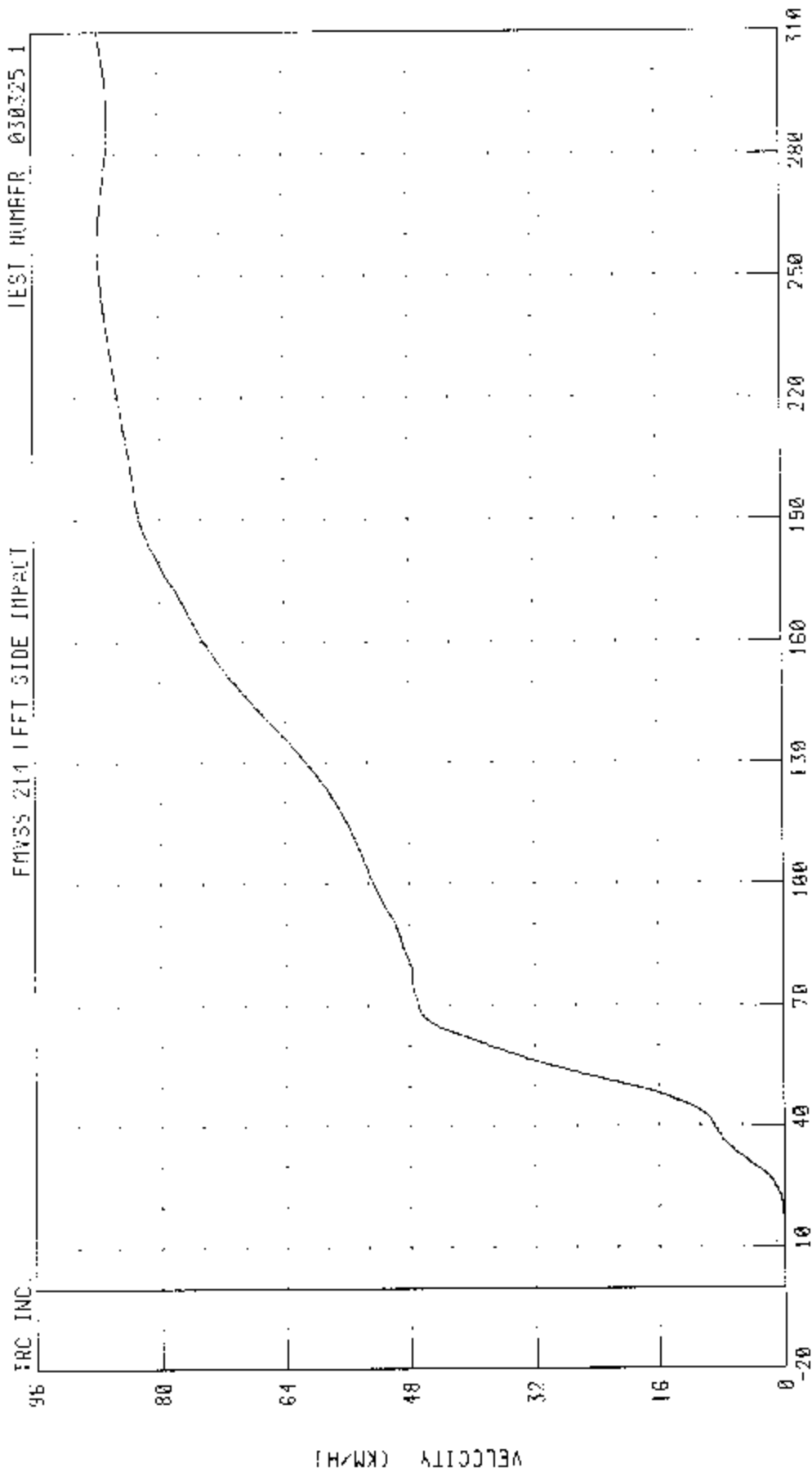
TIME (MS)

CHANNEL: HEDZ1 FILTER: CH. CLASS 1000

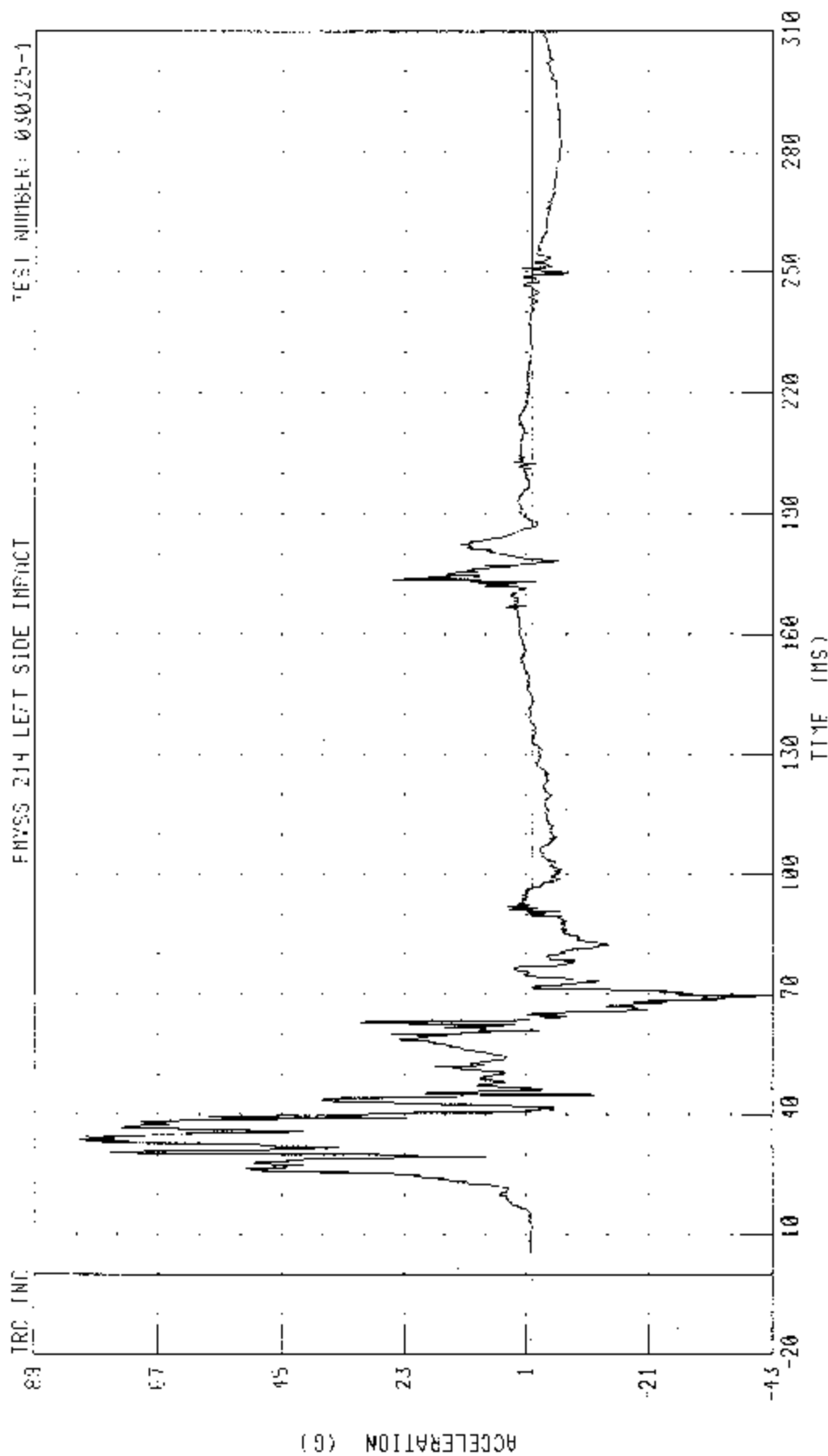
PEAK DATA 52.50 G @ 50.96 MS; -1.82 G @ 270.54 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING) DEFORMABLE BARRIER - INO LEFT SIDE OF 2003 HUNDA ACCORD

DRIVER HEAD Z AXIS REDUNDANT VELOCITY



55/20 MPH 00 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARREL) IN THE LEFT SIDE OF 1303 WINDA RECORD
 DRIVER UPPER REG Y AXIS REDUNDANT ACCELERATION

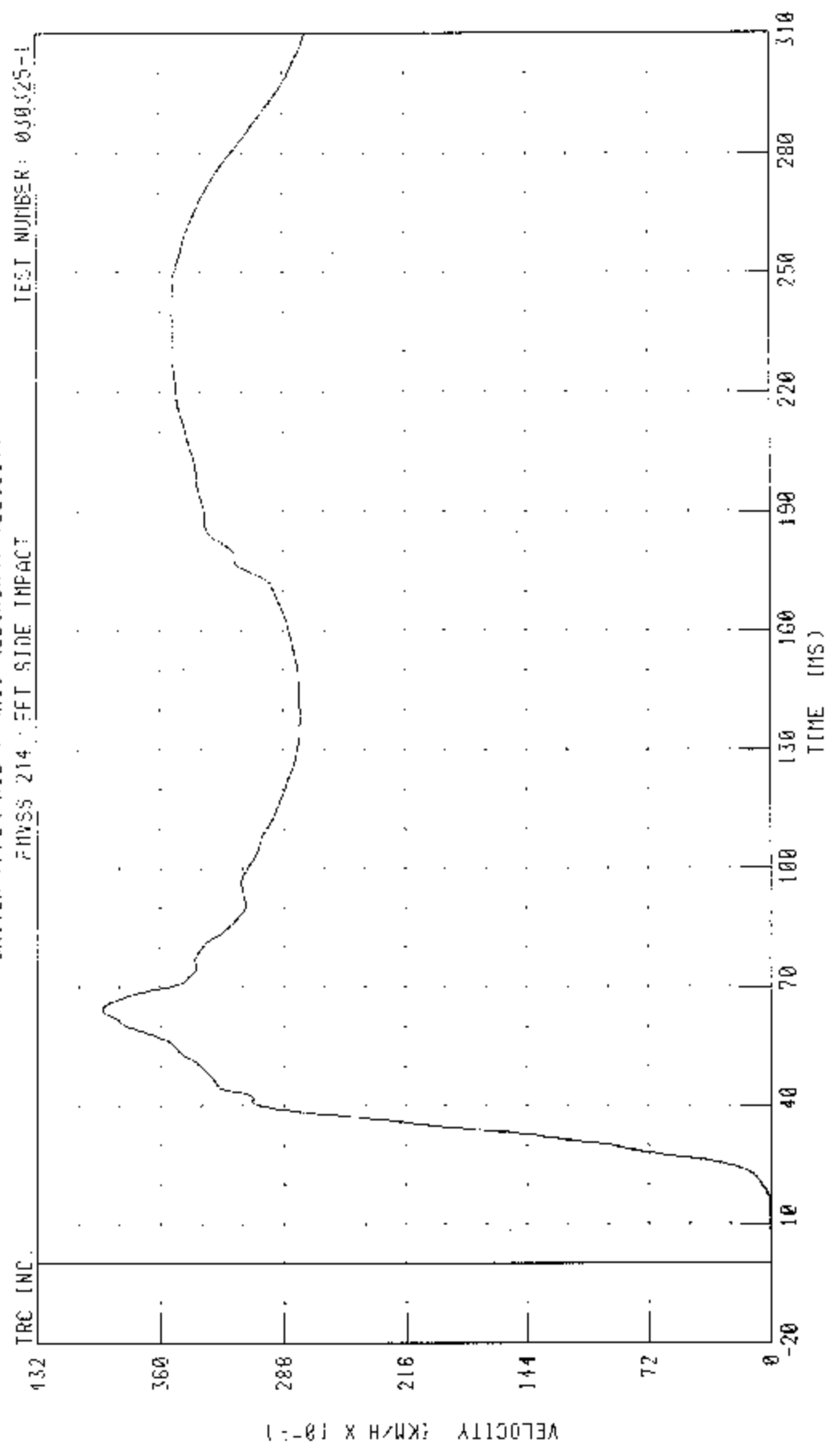


CHANNEL: LURYR1 FILTER: CF, CLASS 1000 PEAK DATA: 31.25 G @ 33.76 MS, -39.97 G @ 69.44 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 DRIVER UPPER RIB Y-AXIS REDUCED VELOCITY

TEST NUMBER: 030325-1

PHVSS 214 LEFT SIDE IMPACT



PEAK DATA: 39.36 KM/H @ 64.24 MS, 0.00 KM/H @ 0.00 MS

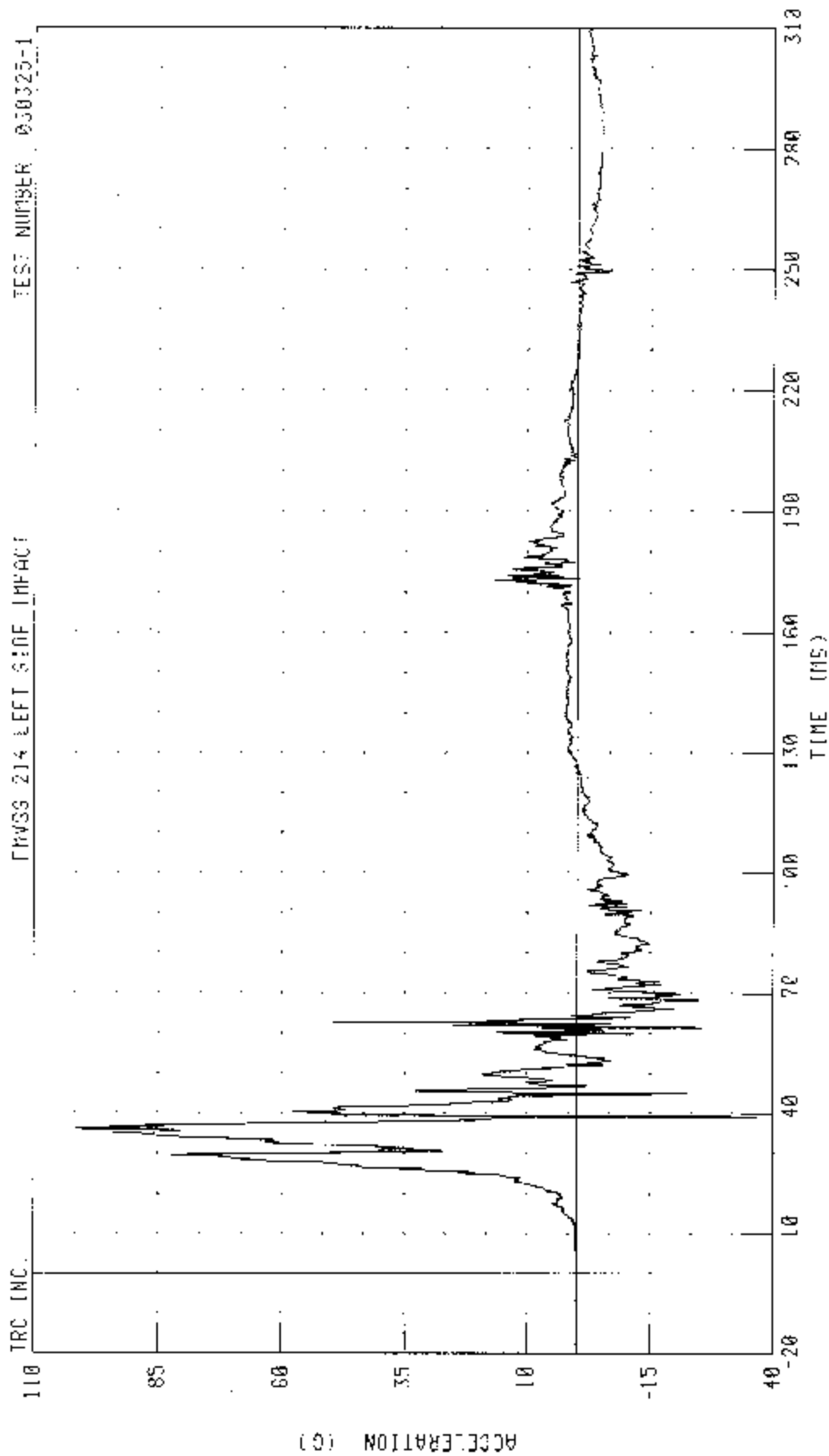
CHANNEL: LURVVI FILTER: CH CLASS 180

55.28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 7AP3 HONDA ACCORD

DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER 030325-1

FWSS 214 LEFT SIDE IMPACT



CHANNEL: LRYR1 FILTER: CH. CLASS 1200

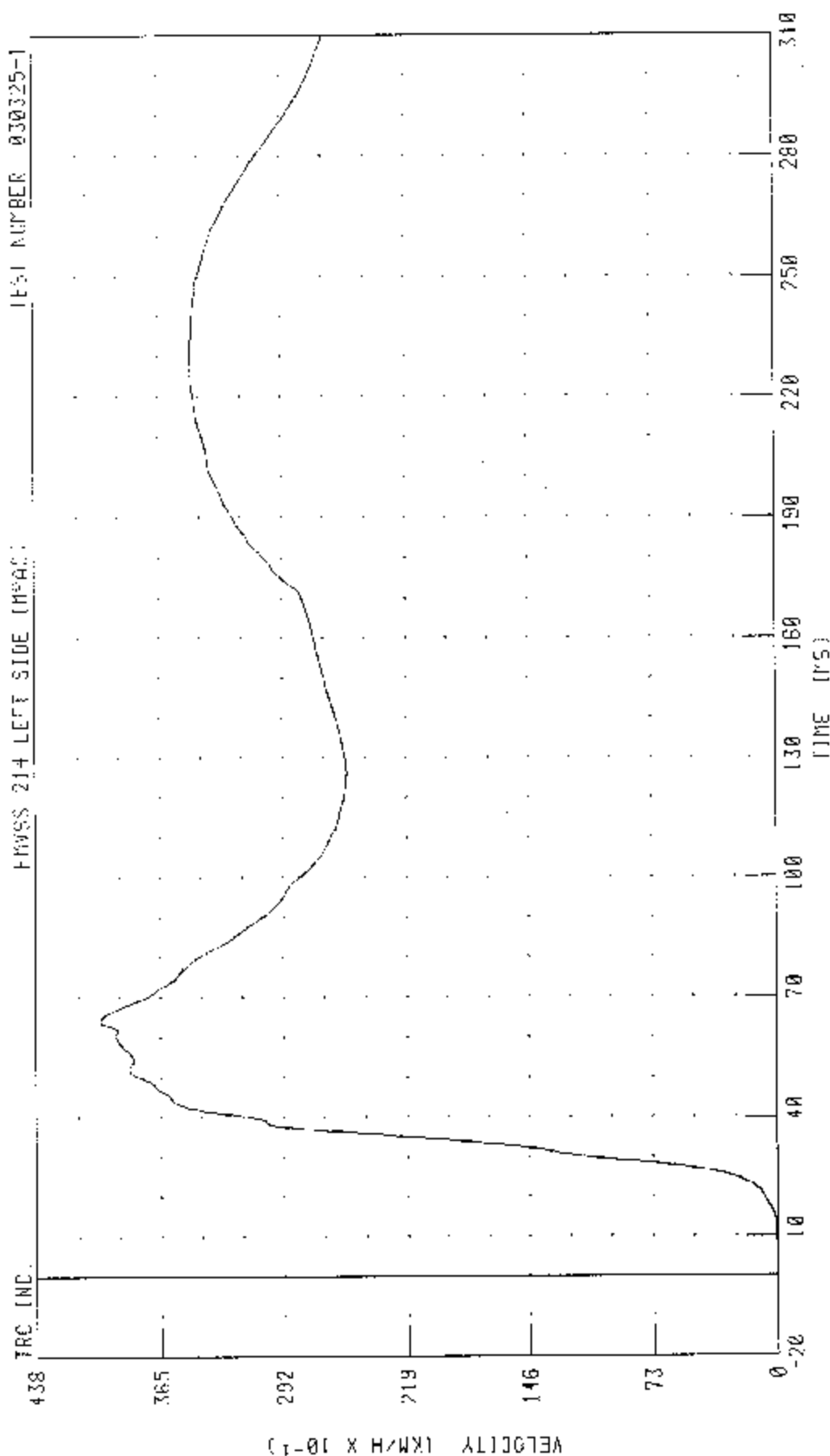
PEAK DATA: 101 57 0 @ 36 24 MS, 36 59 0 @ 39 20 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER LOWER RIB Y-AXIS REDUNDANT VELOCITY

TEST NUMBER 030325-1

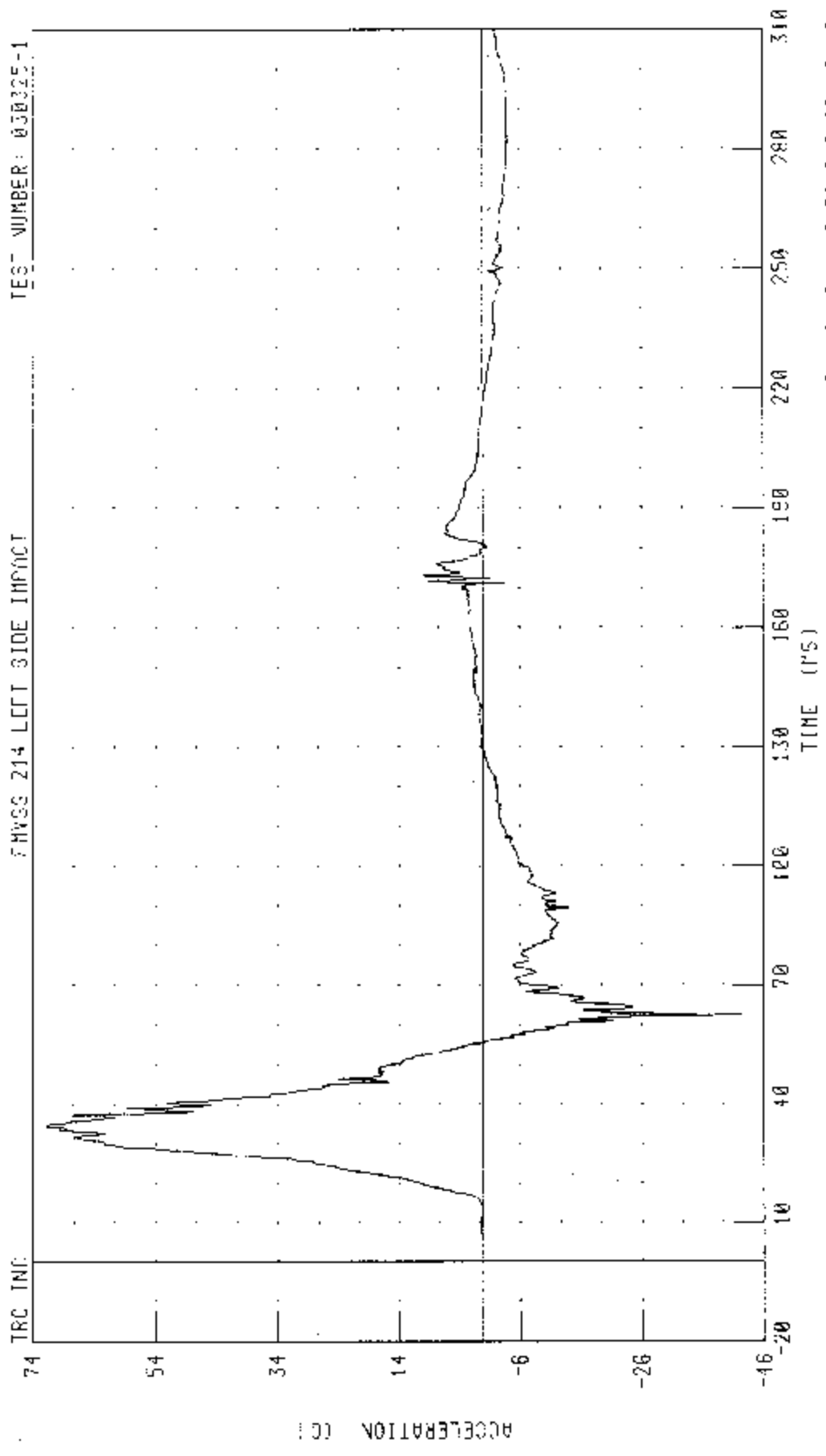
FMVSS 214 LEFT SIDE (HAC)



PEAK DATA: 40.06 KM/H @ 64.16 MS; 9.00 KIL/1 @ 0.00 MS

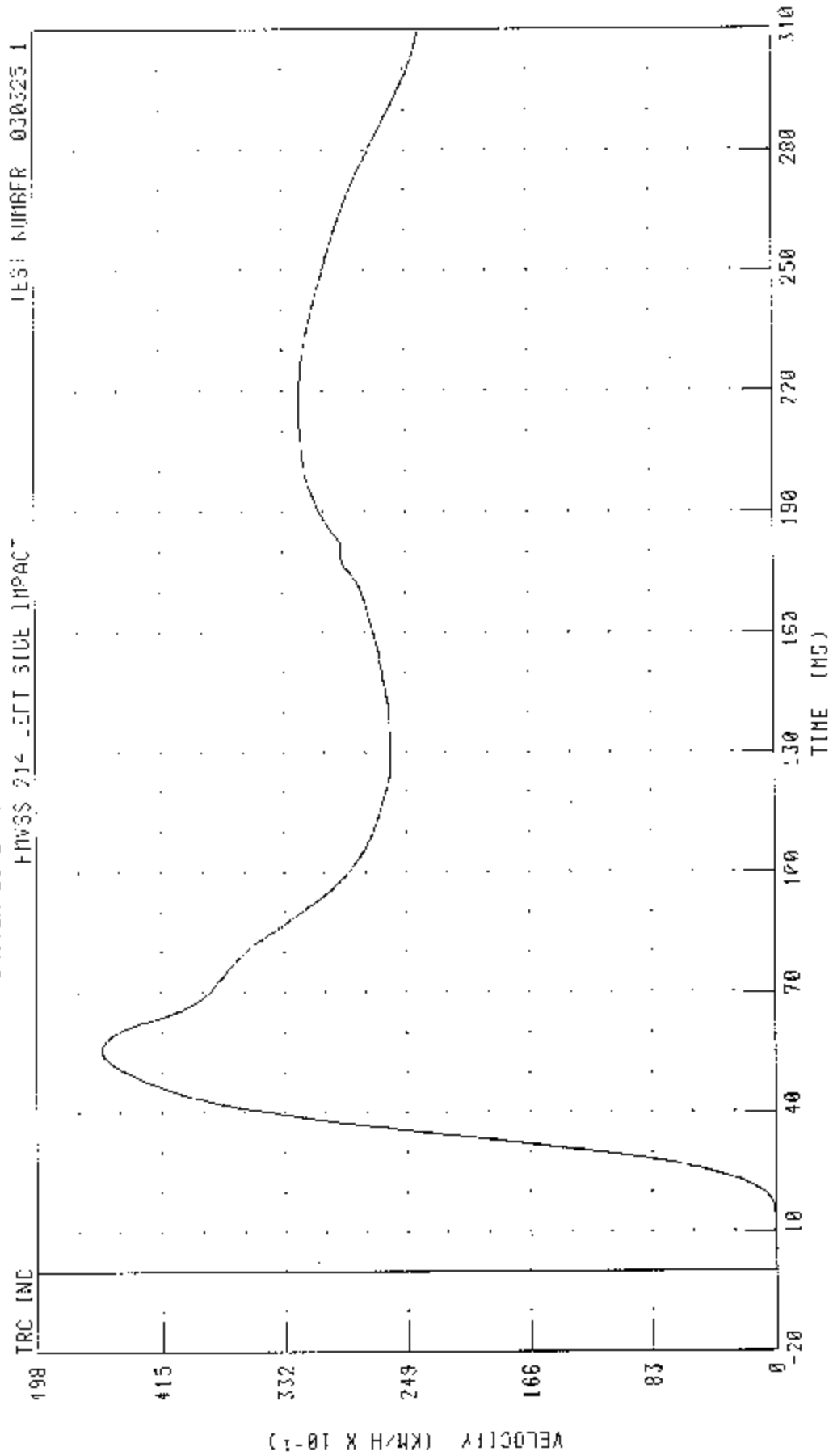
CHANNEL LLRYVI FILTER CH CLASS 180

55/28 K24 90 DEGREE SIDE IMPACT (MOVING DEFORMER - BARRIERS) N O LEFT SIDE OF 2005 HONDA ACCORD
 DRIVER LOWER SPINE Y-AXIS REFORMIDON ACCCELERATION



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARrier) INTO LEFT SIDE OF 2007 HONDA ACCORD

DRIVER LOWER SPINE Y-AXIS REDUNDANT VELOCITY



CHANNEL: T12YVI FILTER: CH. CLASS 180

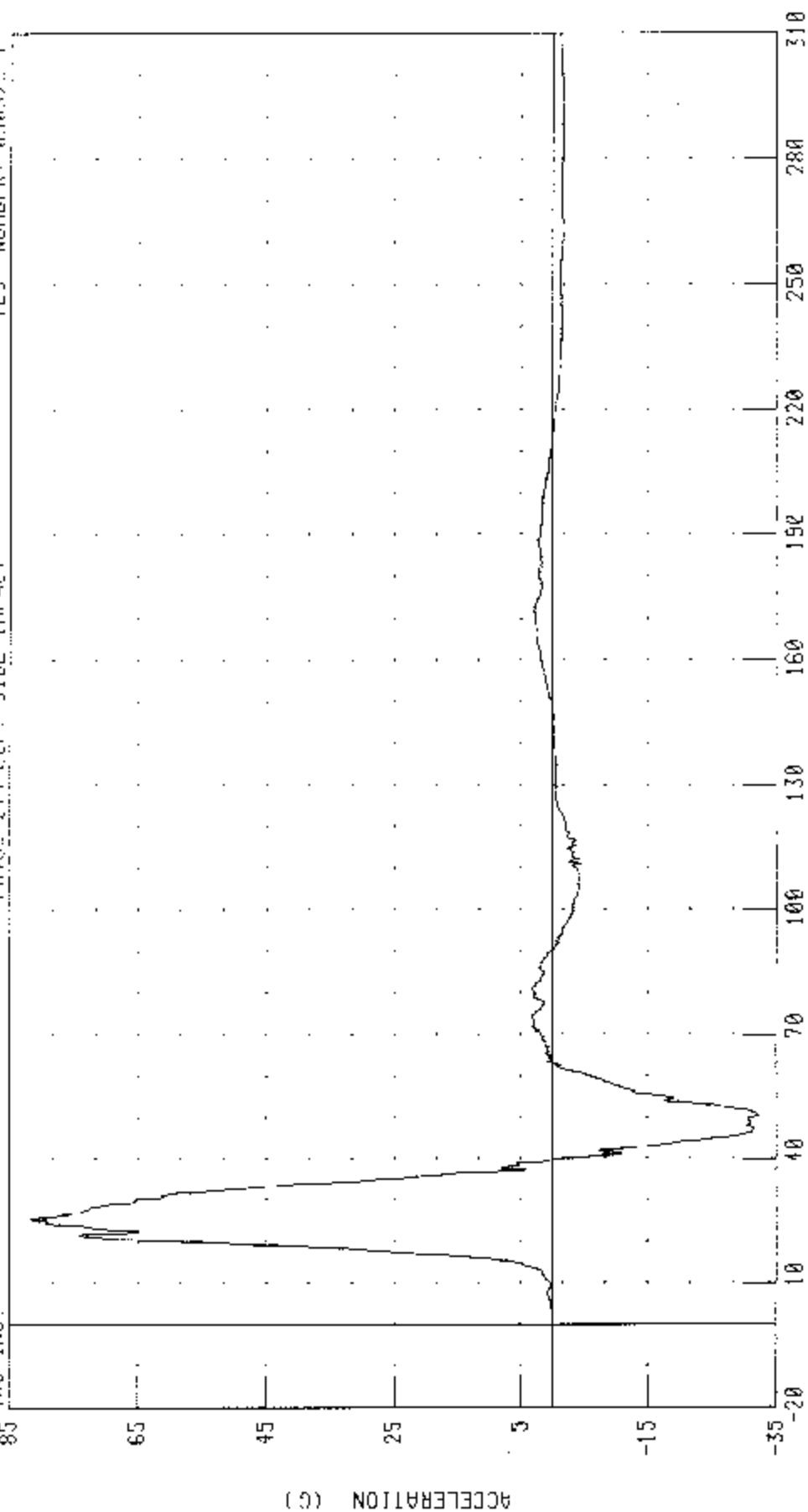
PEAK DATA: 45 42 KM/H @ 55 84 MS; 0 00 KM/H @ 0.00 MS

55 78 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 DRIVER PELVIS Y-AXIS REDUCANT ACCELERATION

TEST NUMBER: 030325-1

PHYSS 214 LEFT SIDE IMPACT

IRC INC.



TIME (MS)

CHANNEL: PFVYR1 FILTER CH. CLASS 1000

PEAK DATA 81.61 G @ 25.36 MS; -32.89 G @ 50.43 MS

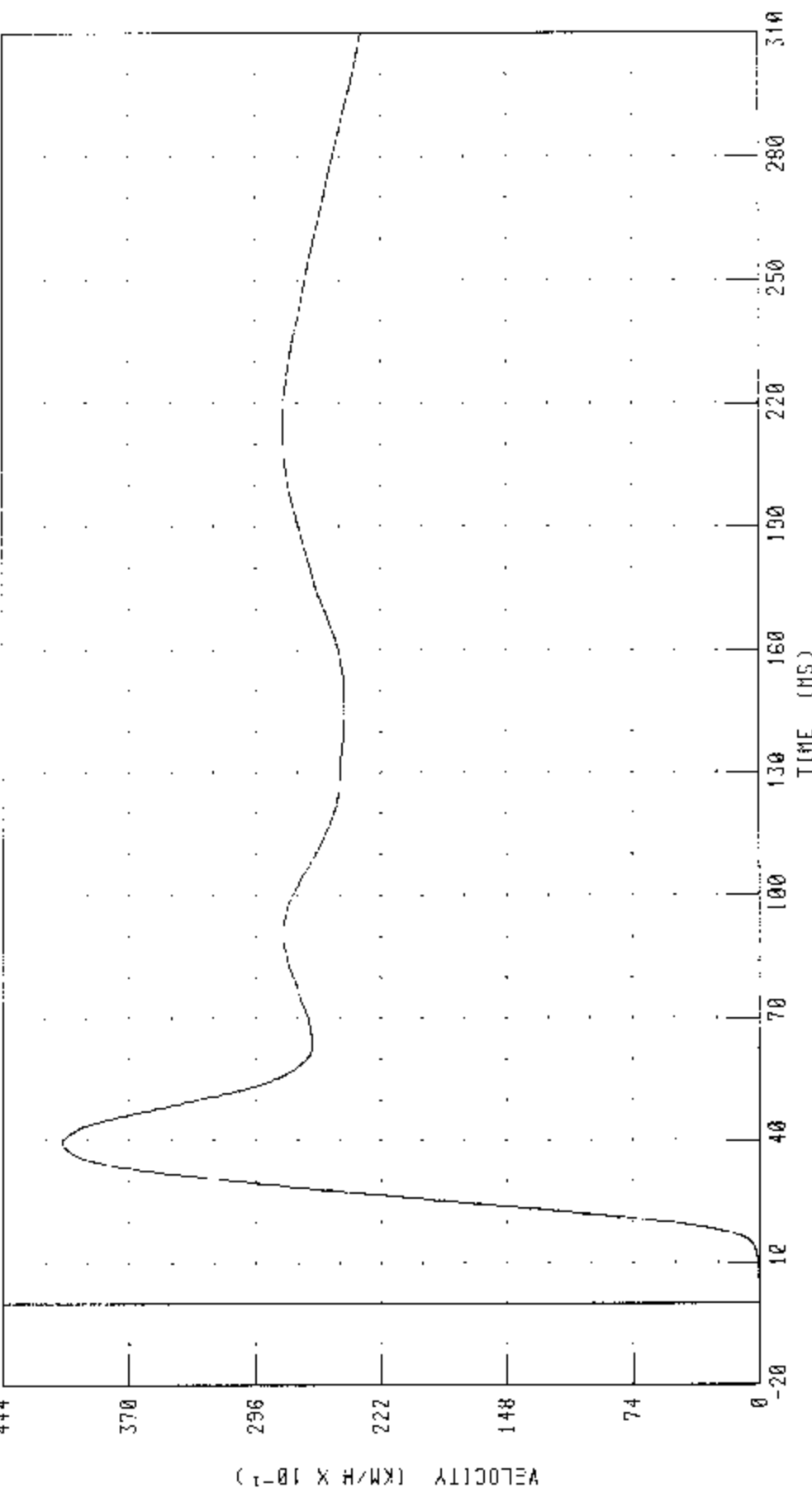
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BAR) INTO LEFT SIDE OF 2045 PONDON ALLURO

DRIVER PELVIS Y-AXIS REDUNDANT VELOCITY

TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: PEVYV1

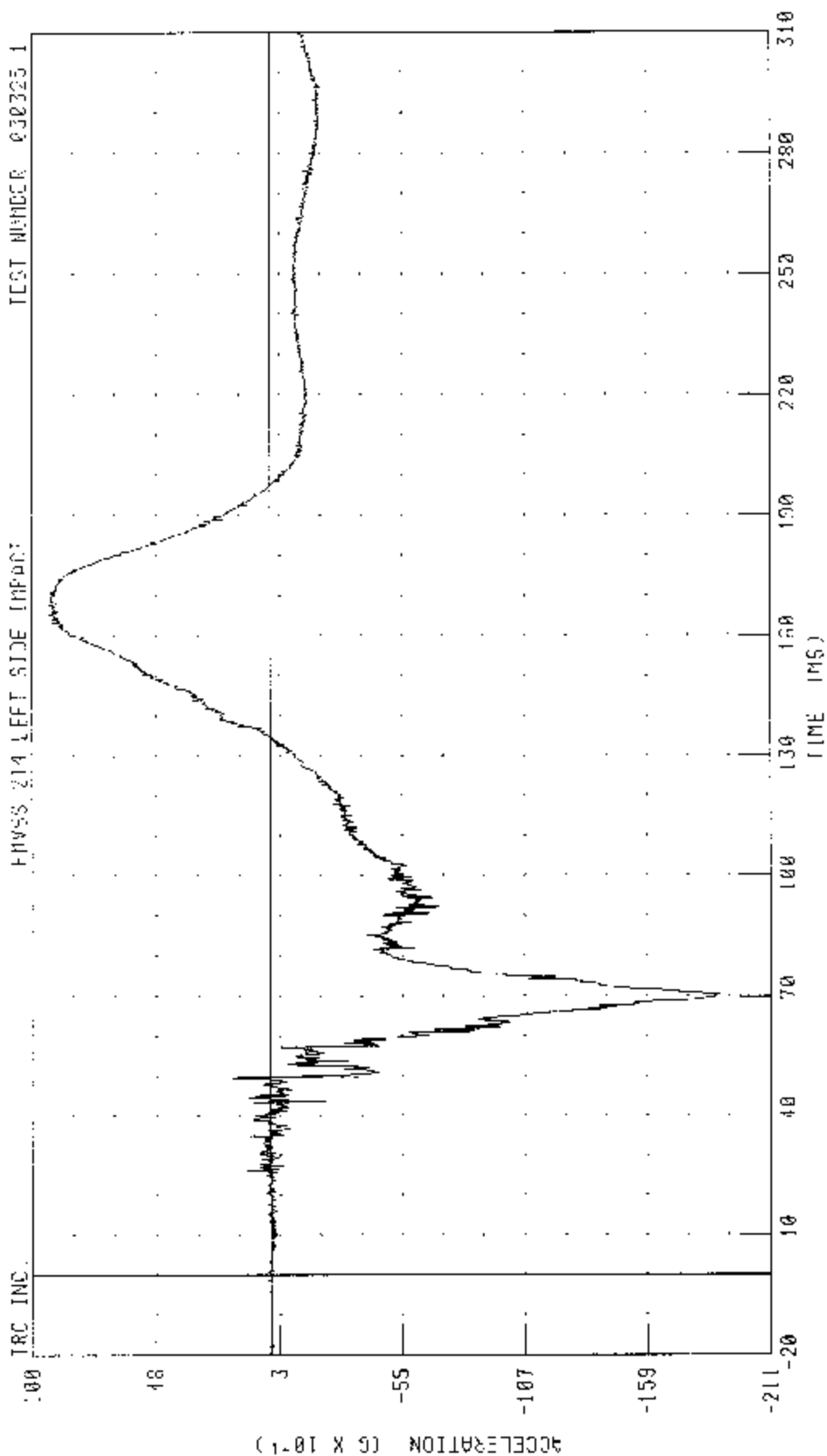
FILTER: CH CLASS 100

PEAK DATA: 10 88 KM/H @ 39.68 MS; 0 00 KM/H @ 0.00 MS

55/28 4PH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INFO LEFT SIDE OF 2003 HONDA 4000R

LEFT REAR PASSENGER HEAD X AXIS REDUNDANT ACCELERATION

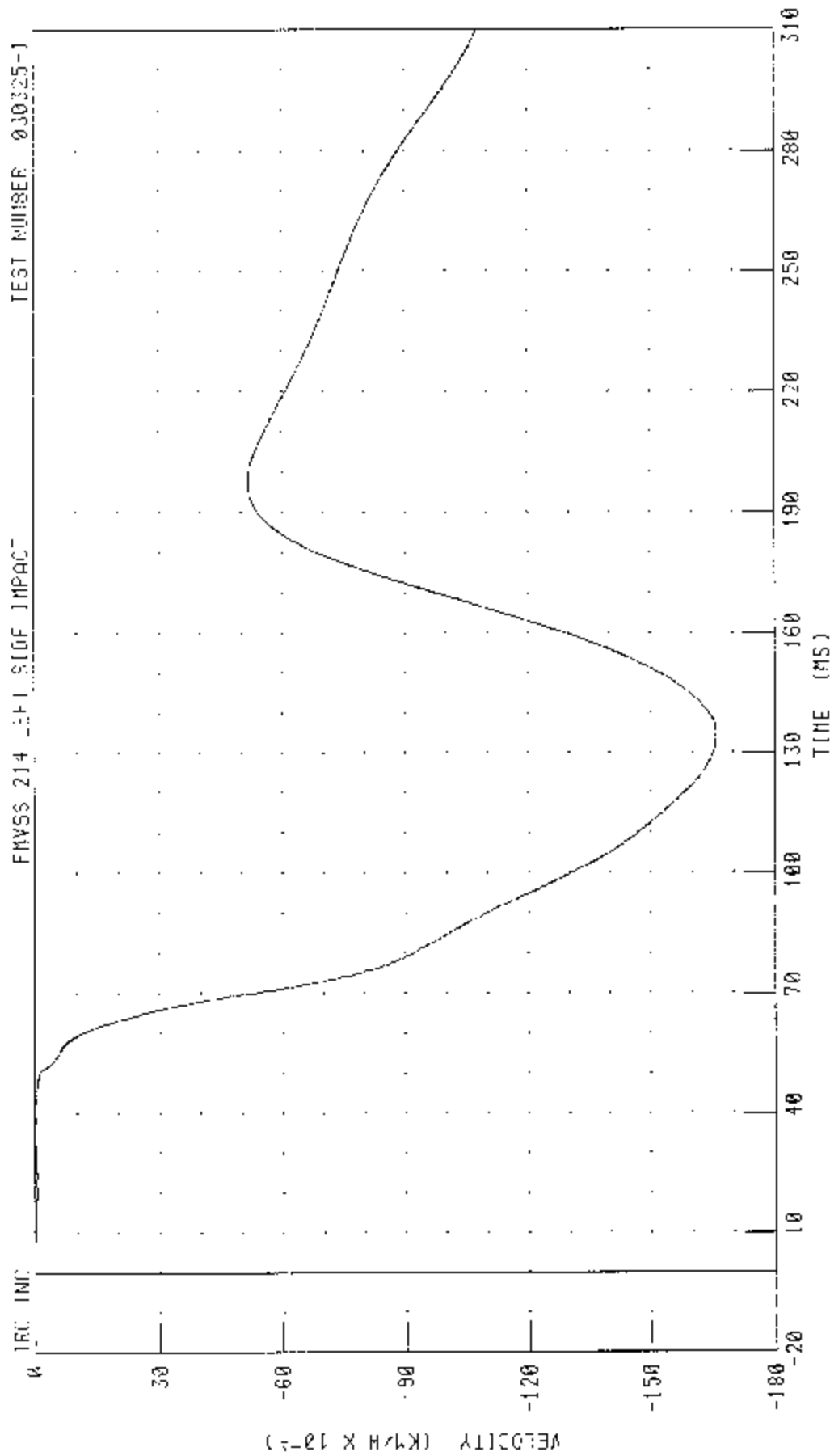
FMVSS 214 LEFT SIDE IMPACT TEST NUMBER 030325-1



CHANNEL: HEDXR1 FILTER CH. CLASS 1000

DATA: 8 32 G @ 165 28 MS, -19 13 G @ 70 40 MS

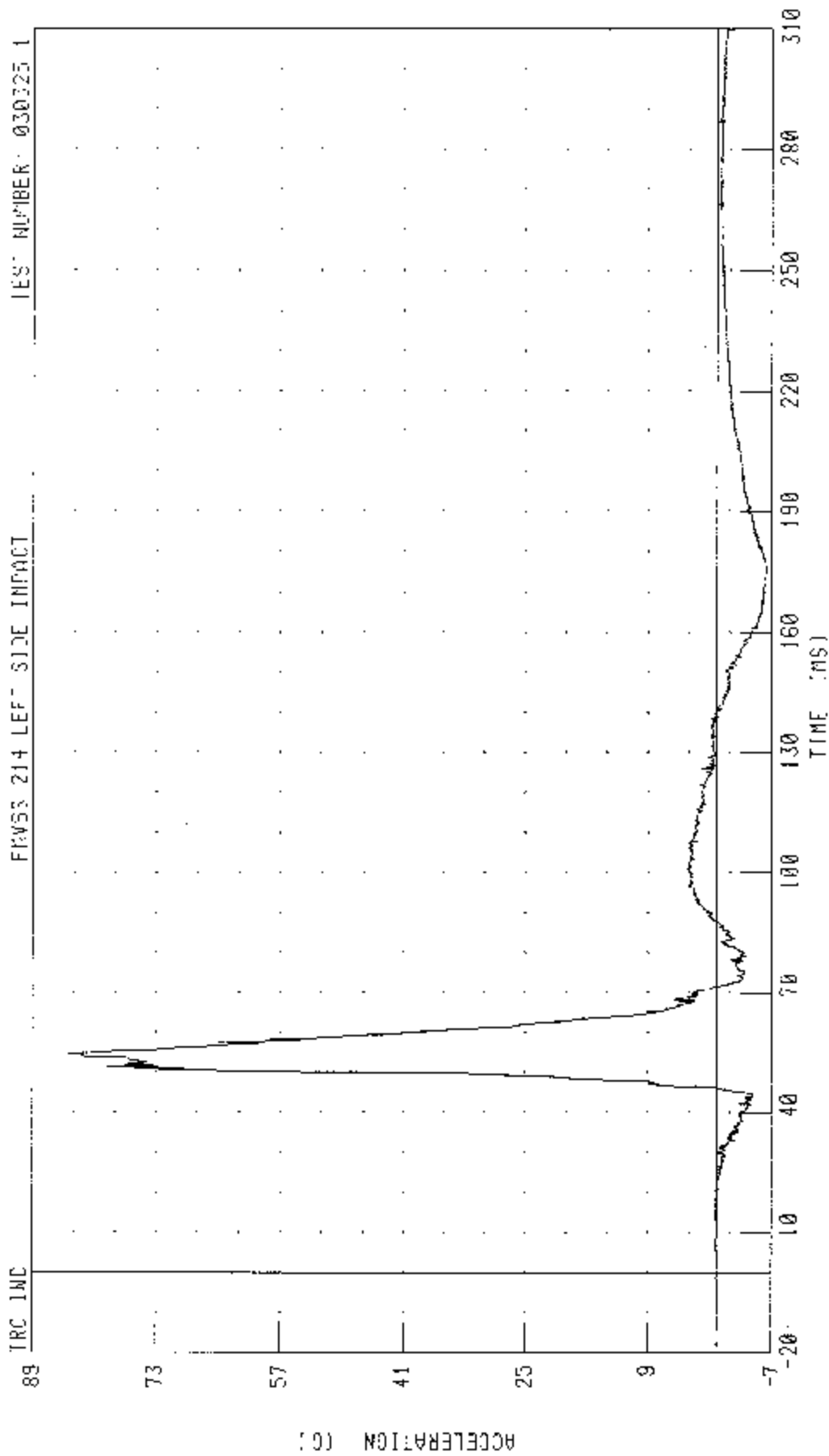
50/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
LEFT REAR PASSENGER HEAD X-AXIS REDUCED VELOCITY



PEAK DATA 0.01 KM/H @ 35.50 MS, -16.61 KM/H @ 134.80 MS

CHANNEL HEDXVJ FILTER: CH CLASS 180

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING INFILTRABLE BARRIER) INTO LEFT SIDE OF 200S HUND0 ACCORD
 LEFT REAR PASSENGER HEAD Y AXIS REDUNDANT ACCELERATION



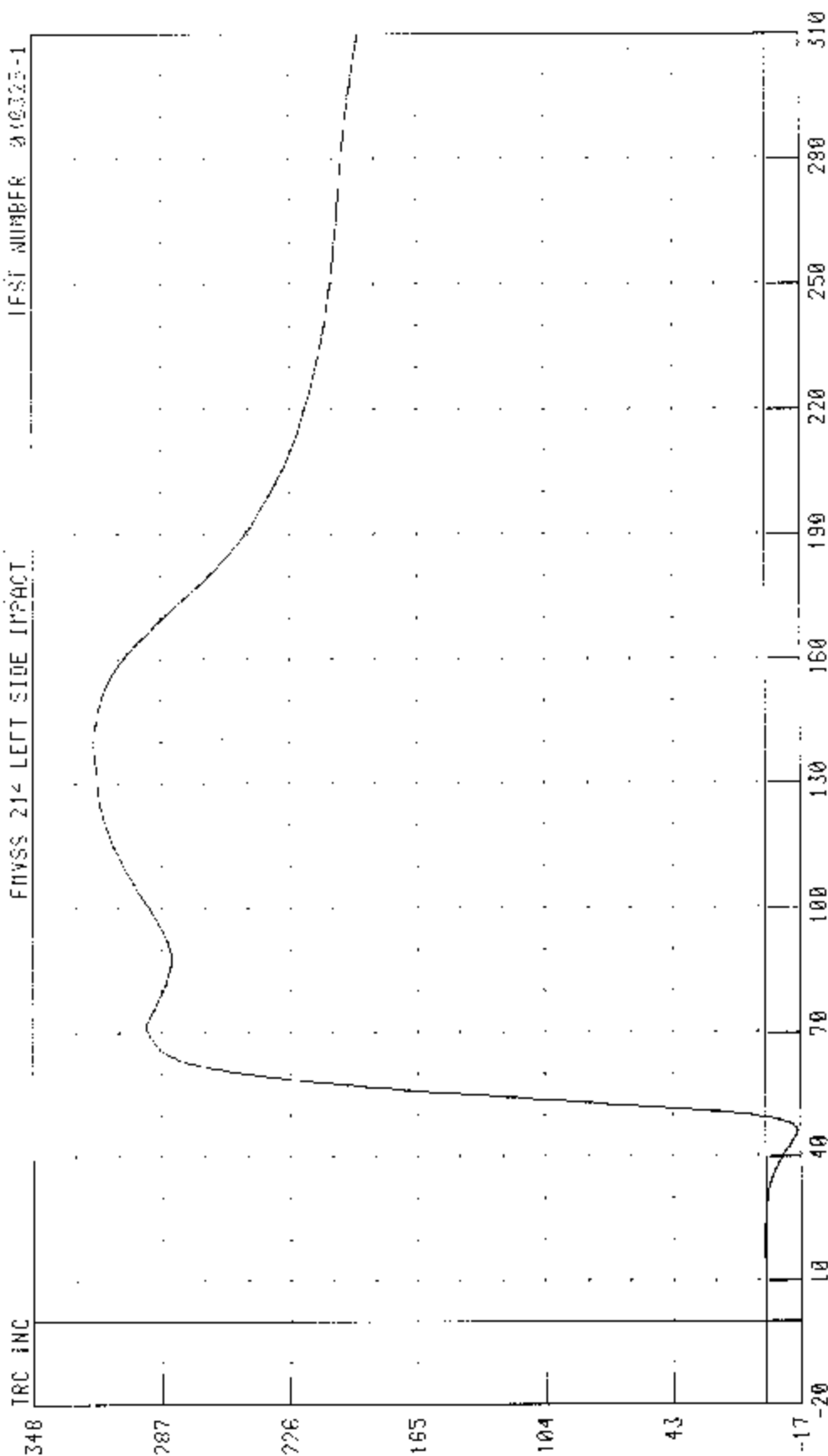
CHANNEL: IIEDYR4 FILTER: CH CLASS 1000 PEAK DATA 84 23 0 54 72 MS; -6 40 0 175 76 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING AFFORDABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT VELOCITY

TEST NUMBER 010325-1

FNVS 214 LEFT SIDE IMPACT



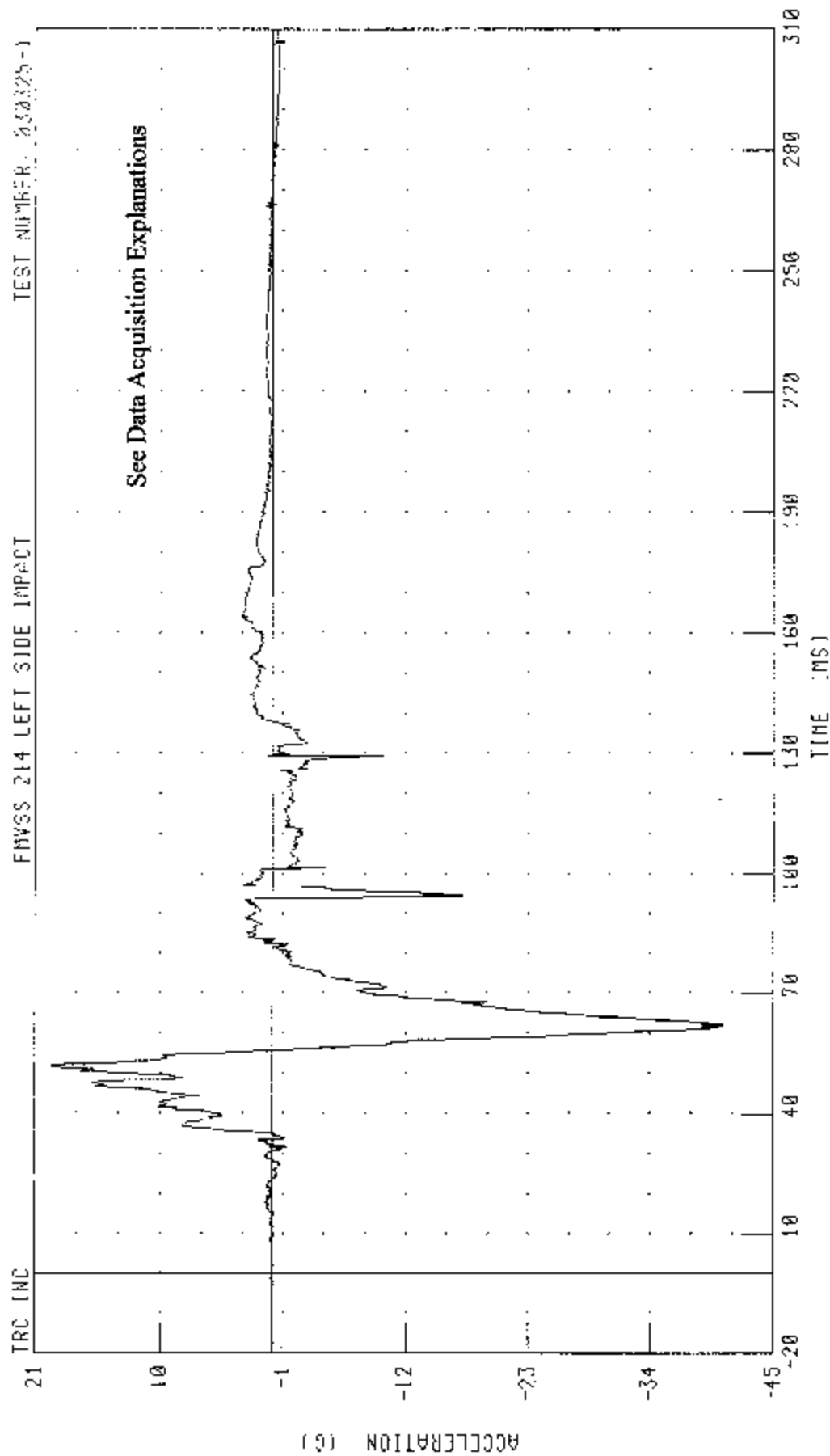
(1-01 X H/KX) AL1001JA

TIME (MS)

PEAK DATA: 32.02 KM/H @ 140.32 MS, -1.57 KM/H @ 45.92 MS

CHANNEL HEDYVJ FILTER CH CLASS 100

55/20 KFH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER SEAT Z AXIS REDUNDANT ACCELERATION



CHANNEL: HED2R1 FILTER: CH. CLASS 1000

PEAK DATA: 19 45 0 51 00 MS, 40.67 G @ 62.40 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMER F BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

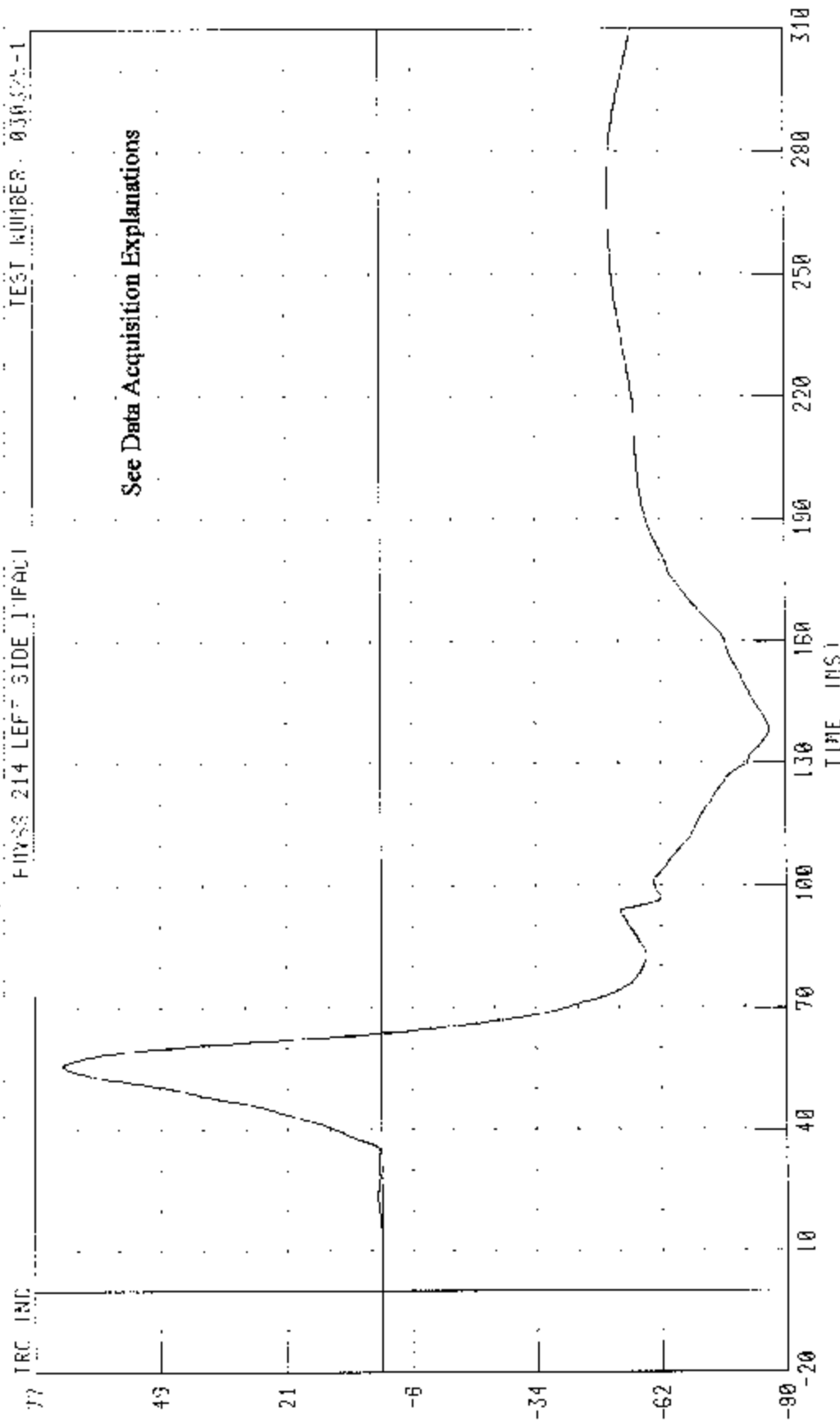
LEFT REAR PASSENGER HEAD 7-AXIS REDUNDANT VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1

See Data Acquisition Explanations

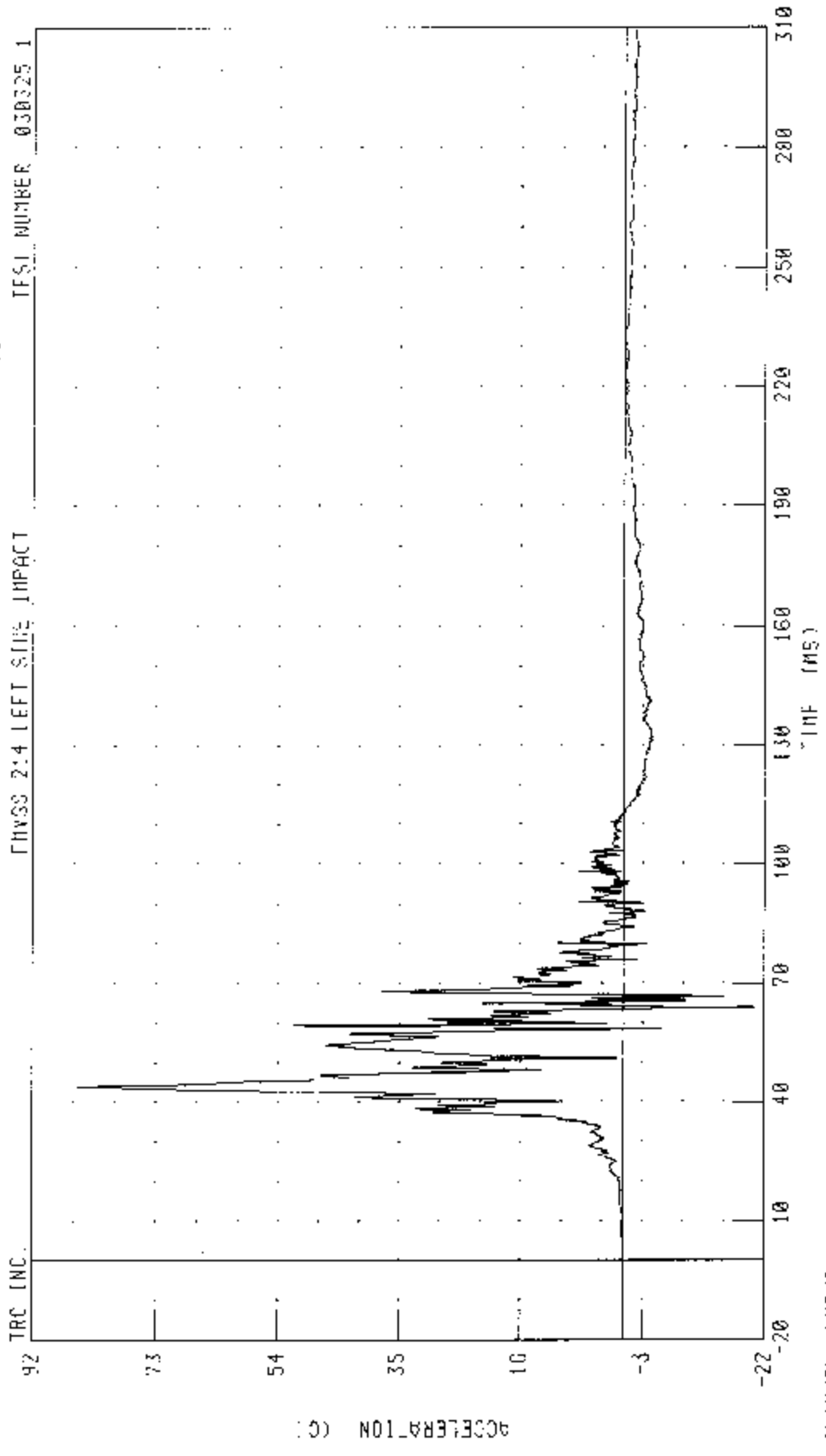
VELOCITY (KM/H X 10⁻¹)



CHANNEL: HEDZYJ F11 FFR: CH CLASS 180

PEAK DATA : 08 KM/H @ 55 76 MS; -8.73 KM/H @ 138 16 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER UPPER RIB (10X) REDUNDANT ACCCELERATION



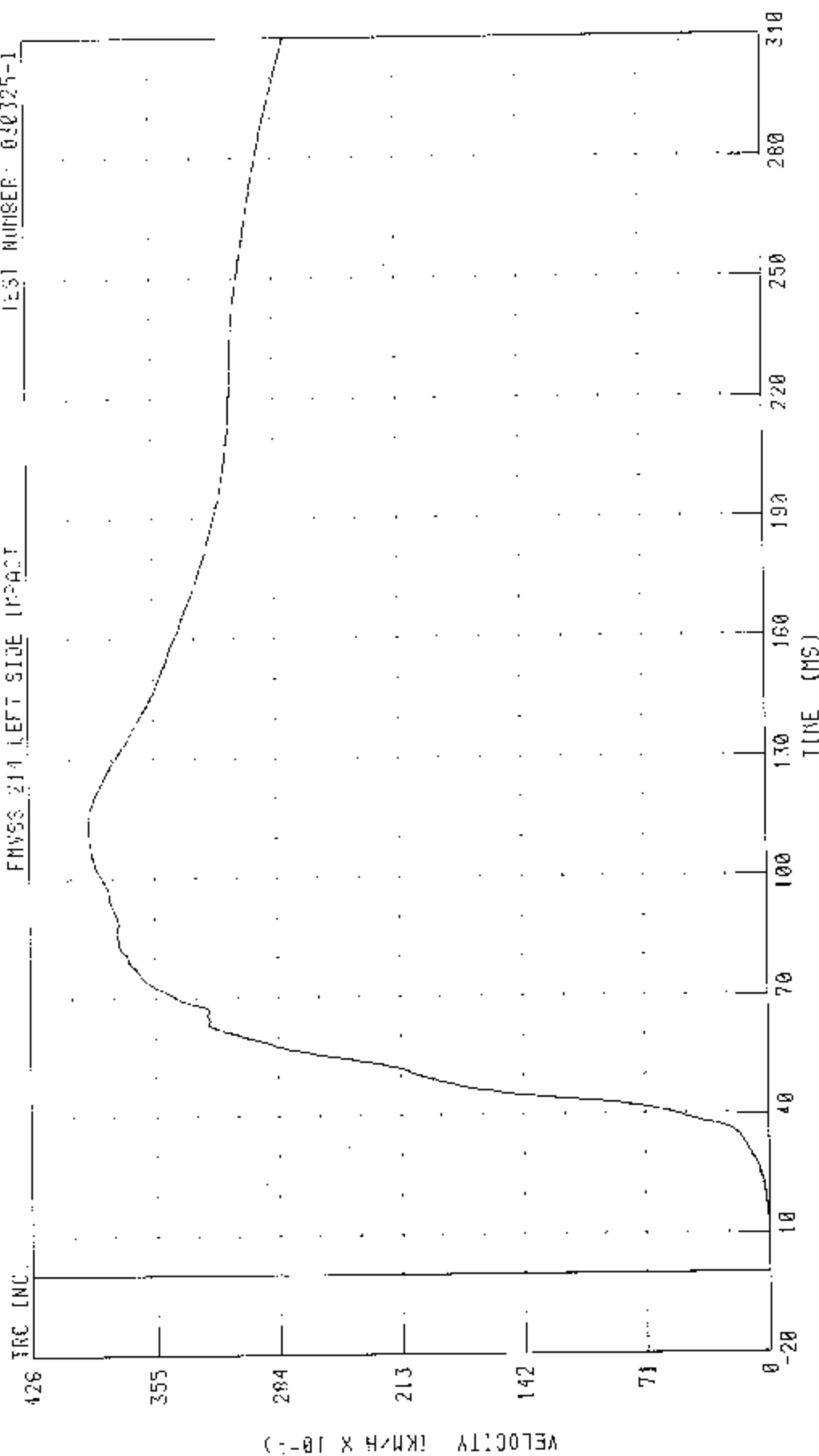
CHANNEL LUR4 FILTER CH. CASS 1000

55/28 KPH 50 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER JUPPER RIB Y-AXIS RAD-INDENT VELOCITY

TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

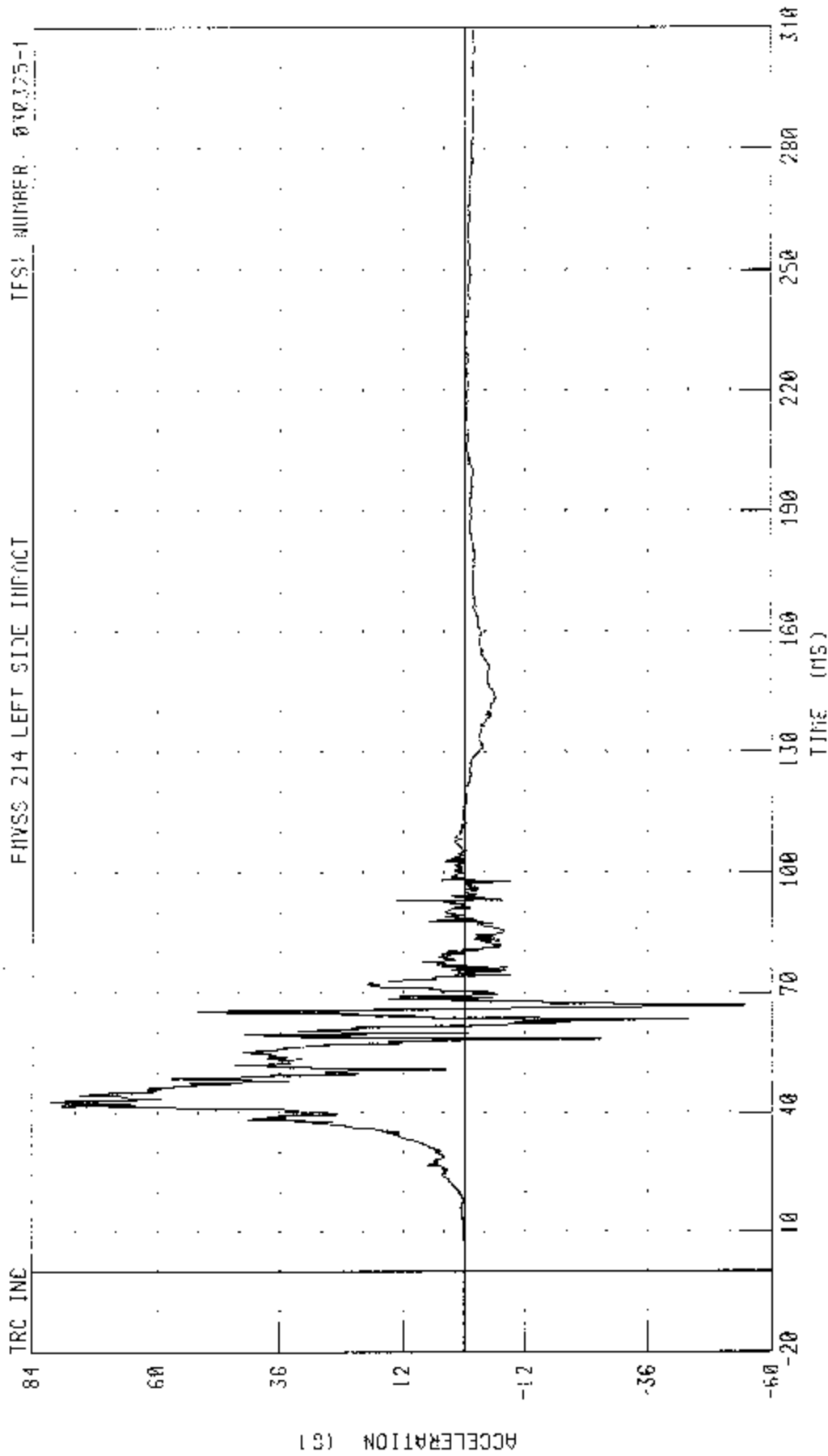


CHANNEL: LURYVJ FILTER: CH CLASS 180

PEAK DATA: 30 20 KM/H @ 112 96 MS; 0.00 KM/H @ 0.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER LOWER RIB Y-AXIS RESONANT ACCELERATION



CHANNEL LLRYR4 FILTER CH. CLASS 1000

PEAK DATA 60.37 G @ 42.96 MS; 54.99 G @ 66.72 MS

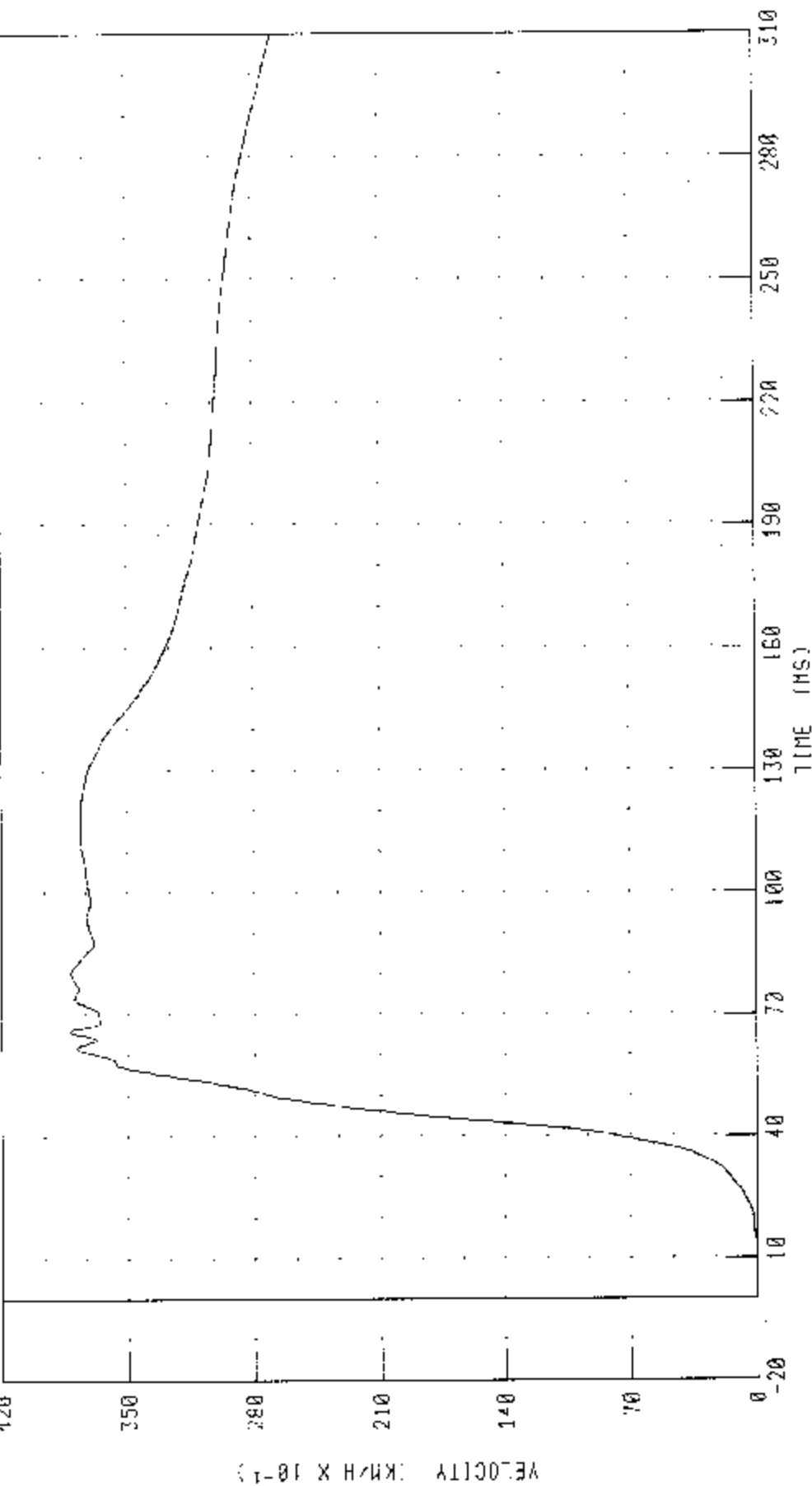
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER LOWER RIB Y AXIS REDUNDANT VELOCITY

TEST NUMBER 030325-1

PHYS 214 LEFT SIDE IMPACT

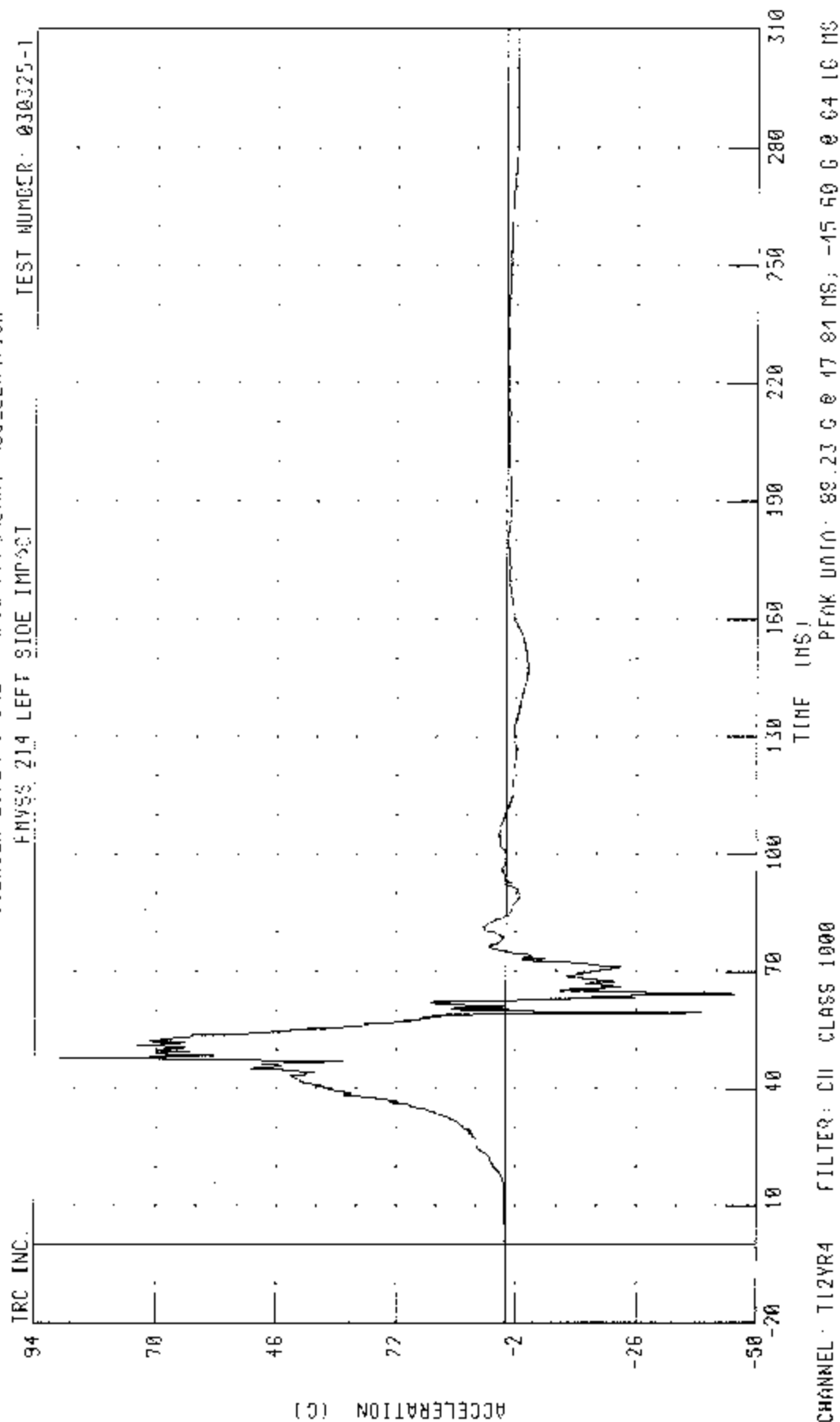
TRC-INC



CHANNEL LLRYVJ FILTER CH. CLASS 100

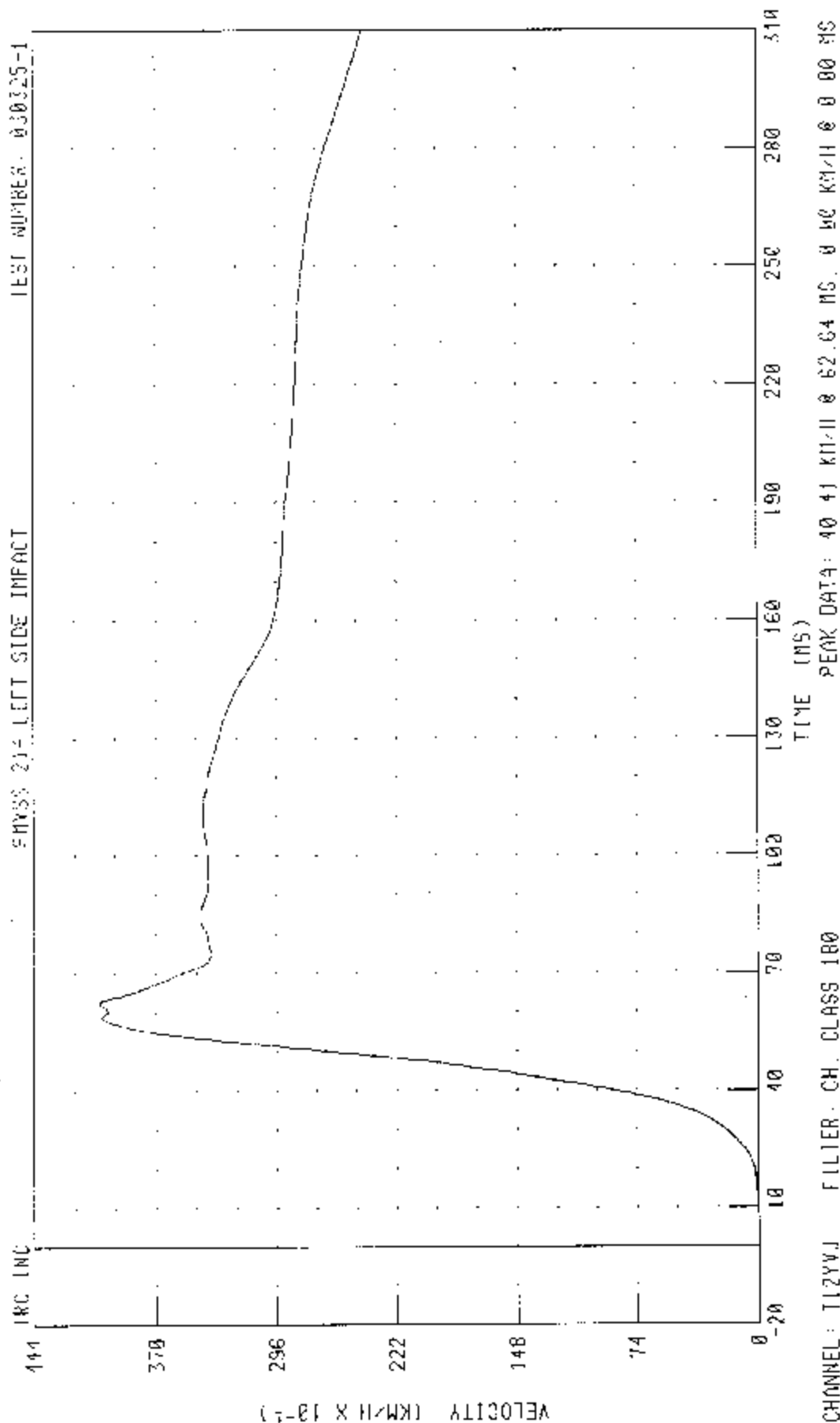
PEAK DATA: 38 20 KM/H @ 66 00 MS, 0.00 KM/H @ 0 00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE PARTNER) INTO LEFT SIDE OF 2003 HUNDT ACCORD
 LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT VELOCITY

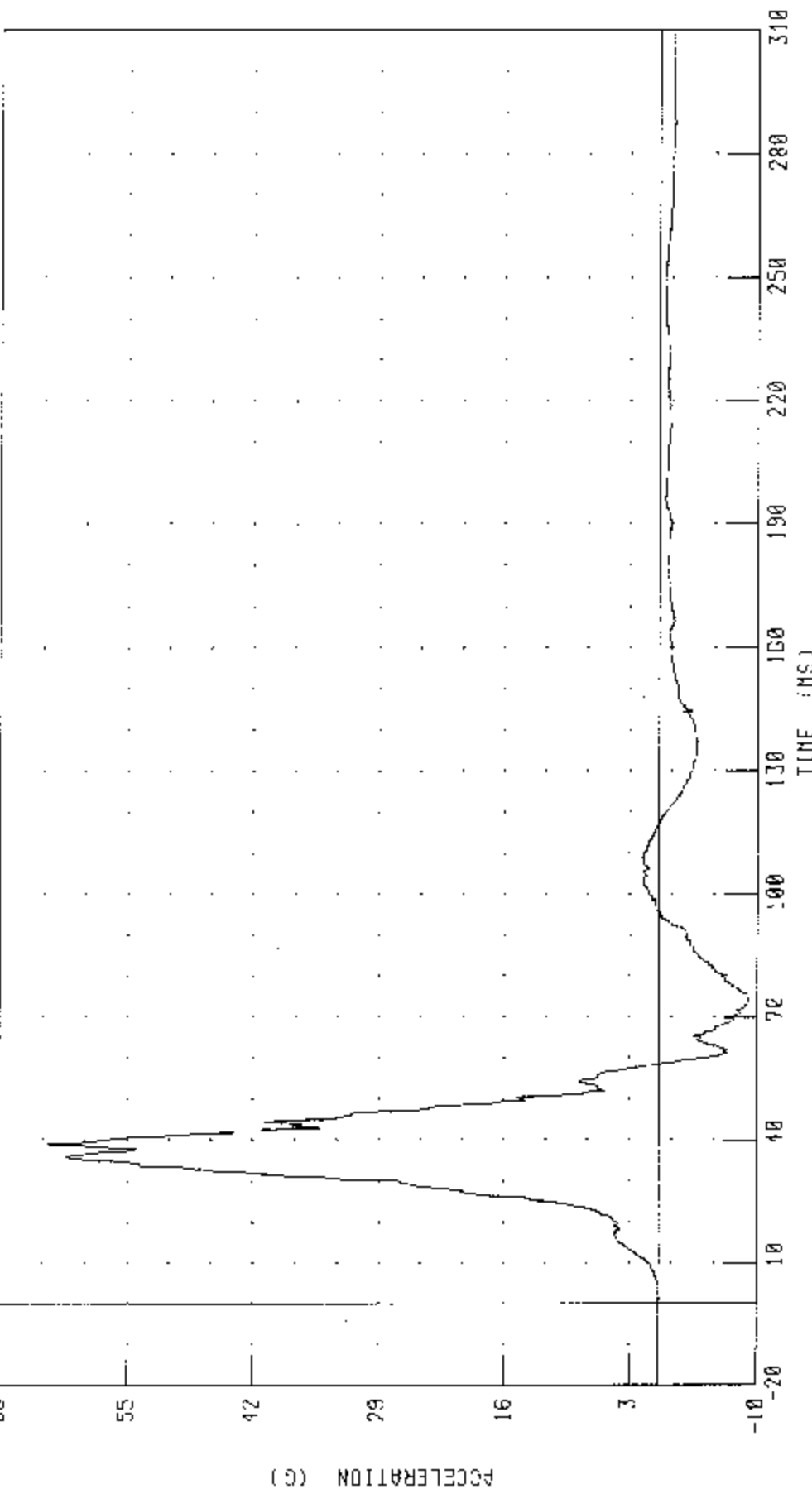


55/28 KPH 90 DEGREE SIDE IMPACT (MOVING IMPERMEABLE BARRIER) INTO FF1 SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER PELVIS Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER 030325-1

IRV INC.

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: PEVVR4 FILTER: CH. CLASS 1200

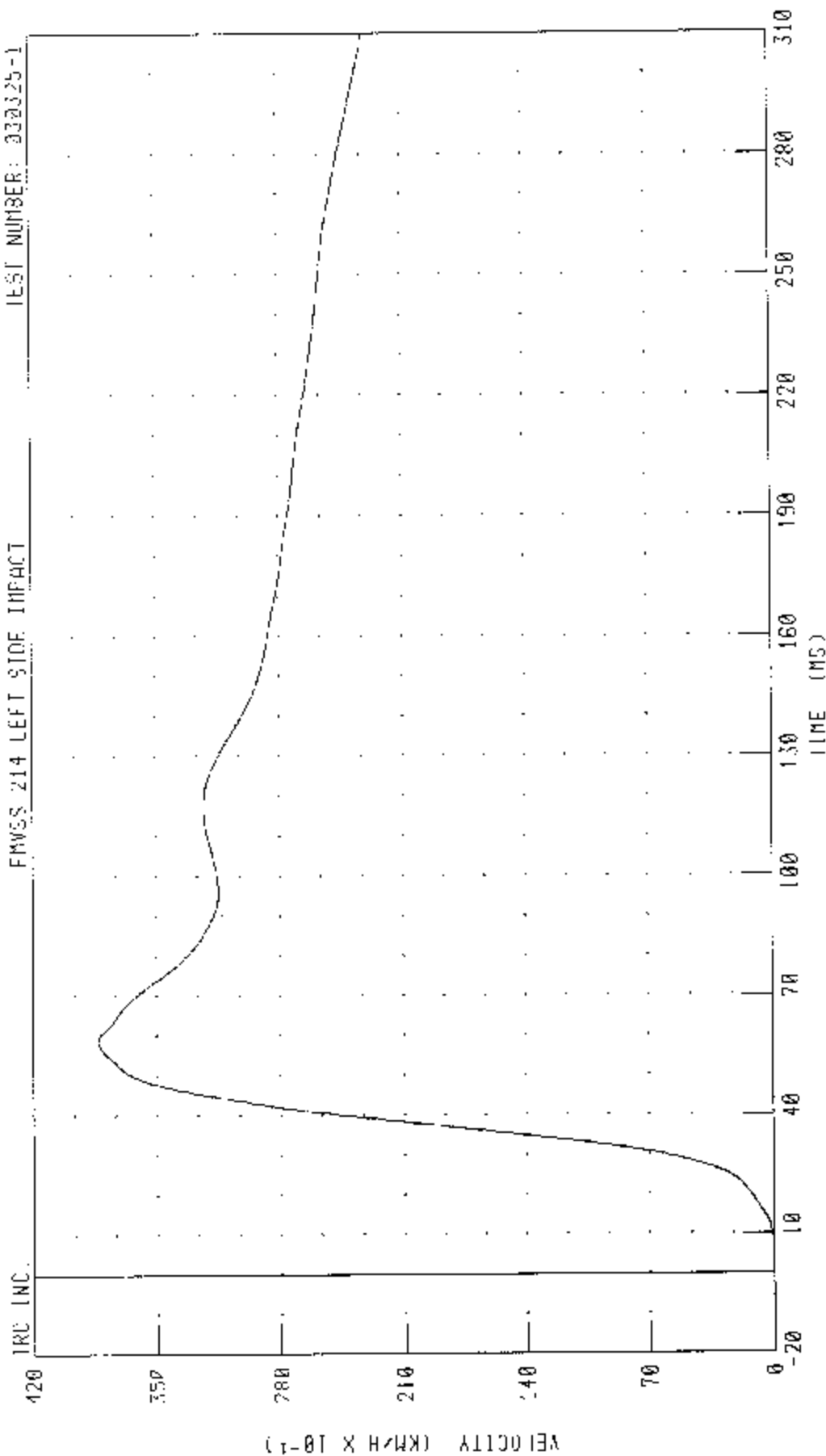
PEAK DATA 63.12 G @ 39.12 MS; -9.21 G @ 73.84 MS

55/20 KM/H 30 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER PELVIS Y-AXIS REDUNDANT VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



PEAK DATA 38 32 KM/H @ 58 56 MS; 0 00 KM/H @ 0 00 MS

CHANNEL FEVVVJ FILTER CH. CLASS 180

Test Vehicle Instrumentation Plots

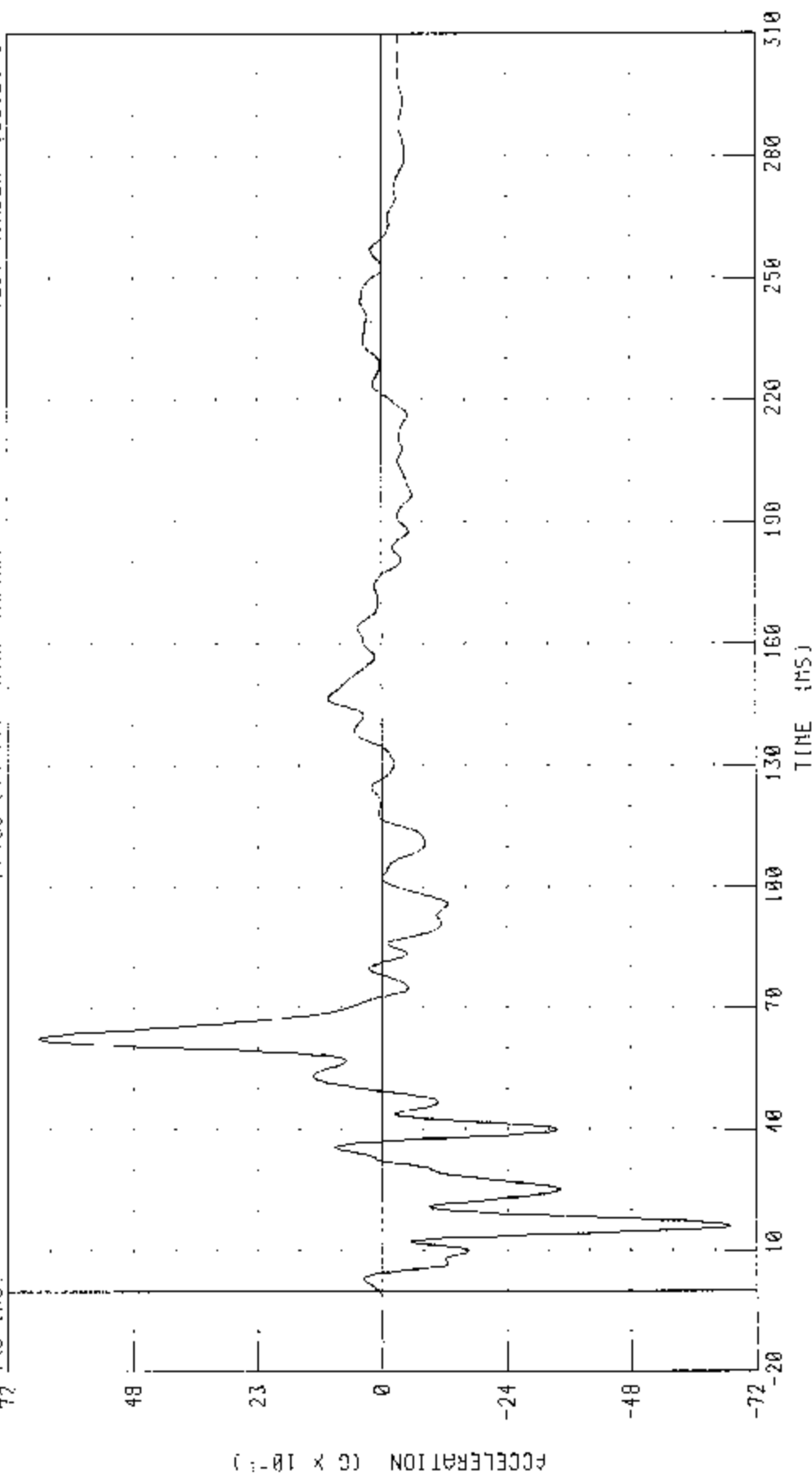
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 20M5 HUMAN OCCUPANT

RIGHT SIDE SILL AT FRONT SEAT X-AXIS ACCELERATION

TEST NUMBER: 030325-1

FMVSS 214 11FF SIDE IMPACT

TRC INC.



CHANNEL: R3XG1 FILTER: CH. CLASS 60

PEAK DATA: 6.59 3.9 62.40 MS; -6.70 6.0 16.24 MS

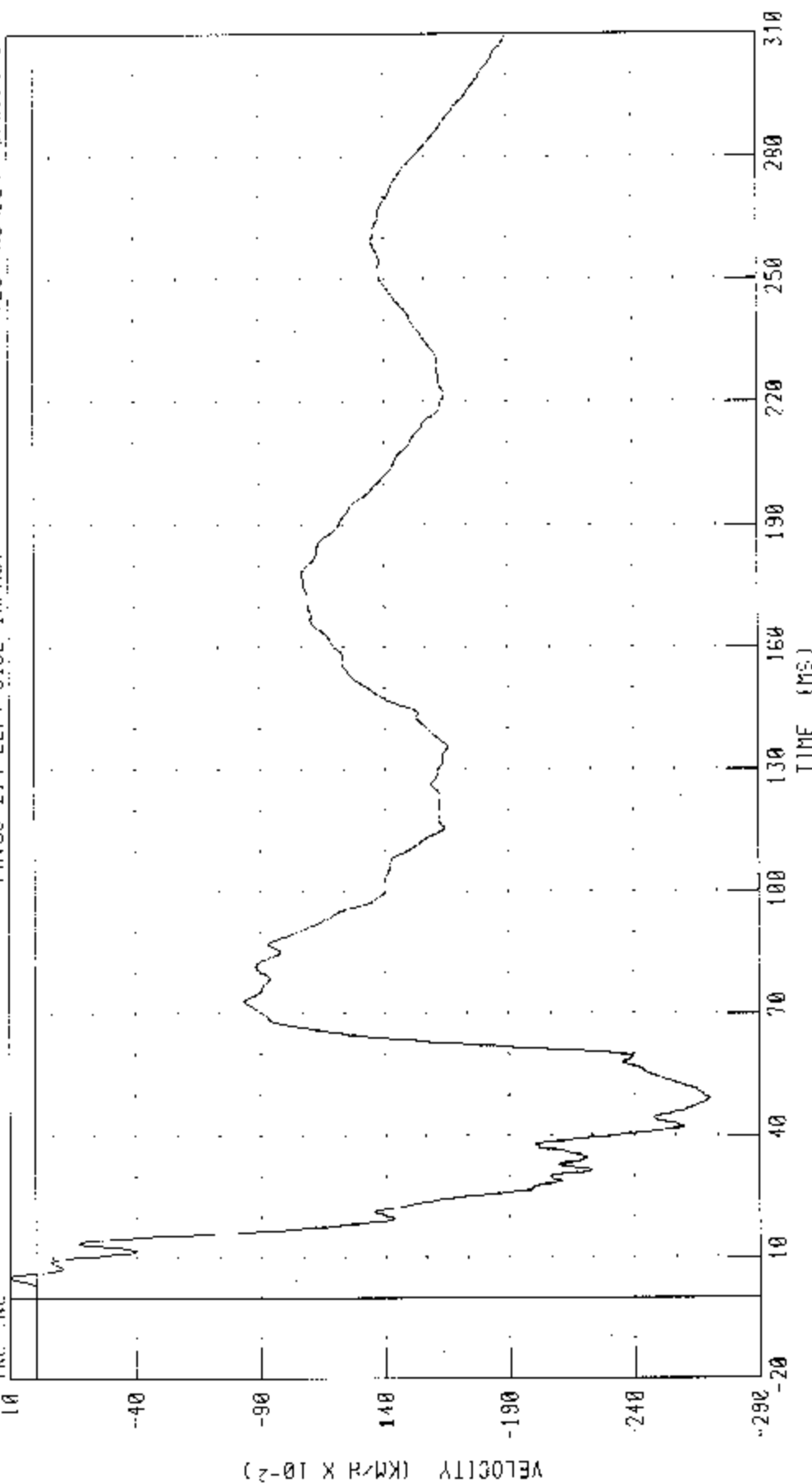
55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SILL AT FRONT SEAT X AXIS VELOCITY

TEST NUMBER: 030325-1

FHYSS 214 LEFT SIDE IMPACT

TRC INC



PEAK DATA: 0 10 KM/H @ 5.12 MS, -2 70 KM/H @ 49 36 MS

CHANNEL RFSXV1 FILTER: CH. CLASS 180

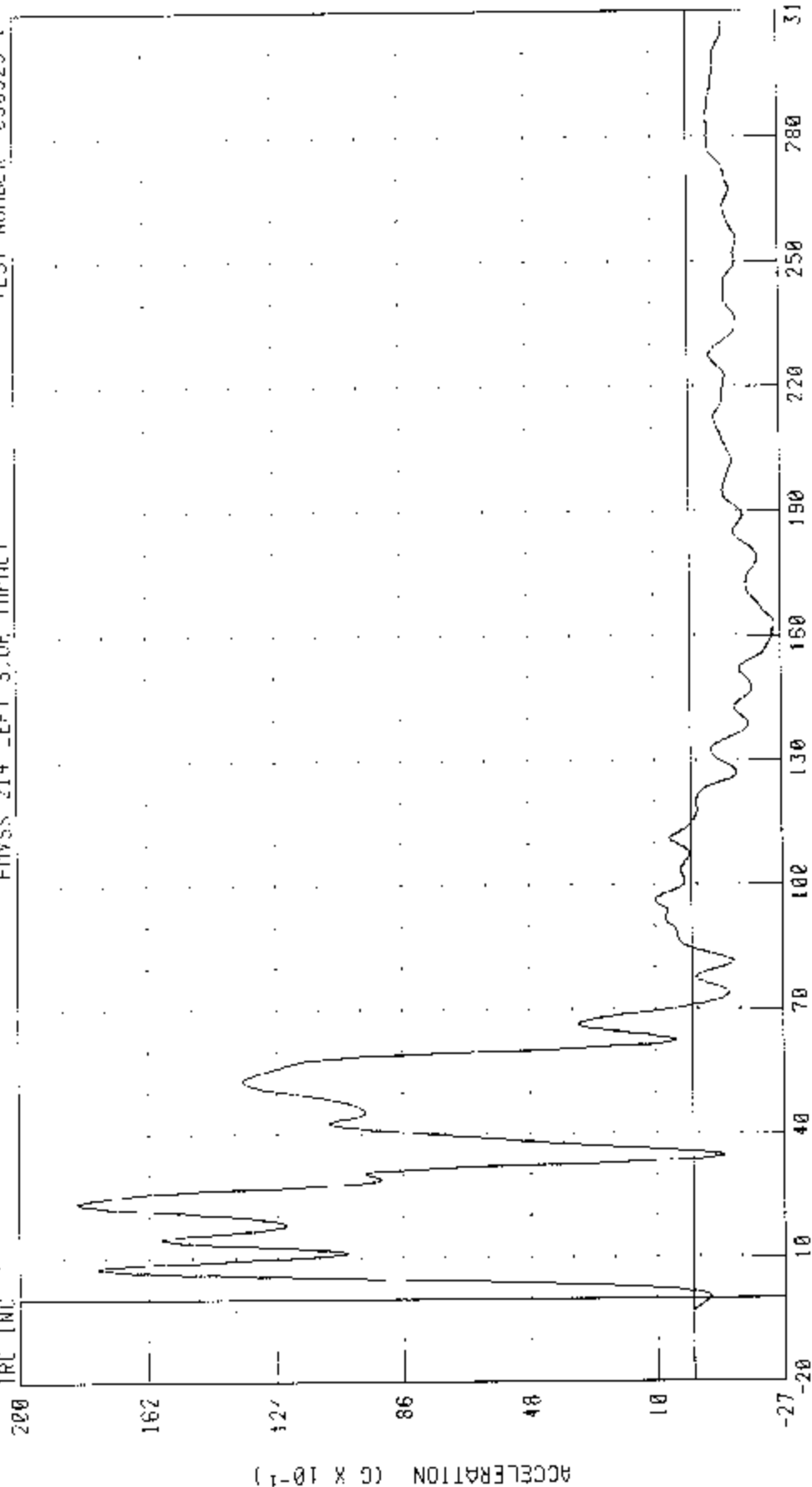
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION

TEST NUMBER 030325-1

FMVSS 214 LEFT SIDE IMPACT

TRC INC



TIME (MS)

PEAK DATA: 18.43 G @ 23.35 MS, -2.51 G @ 162.92 MS

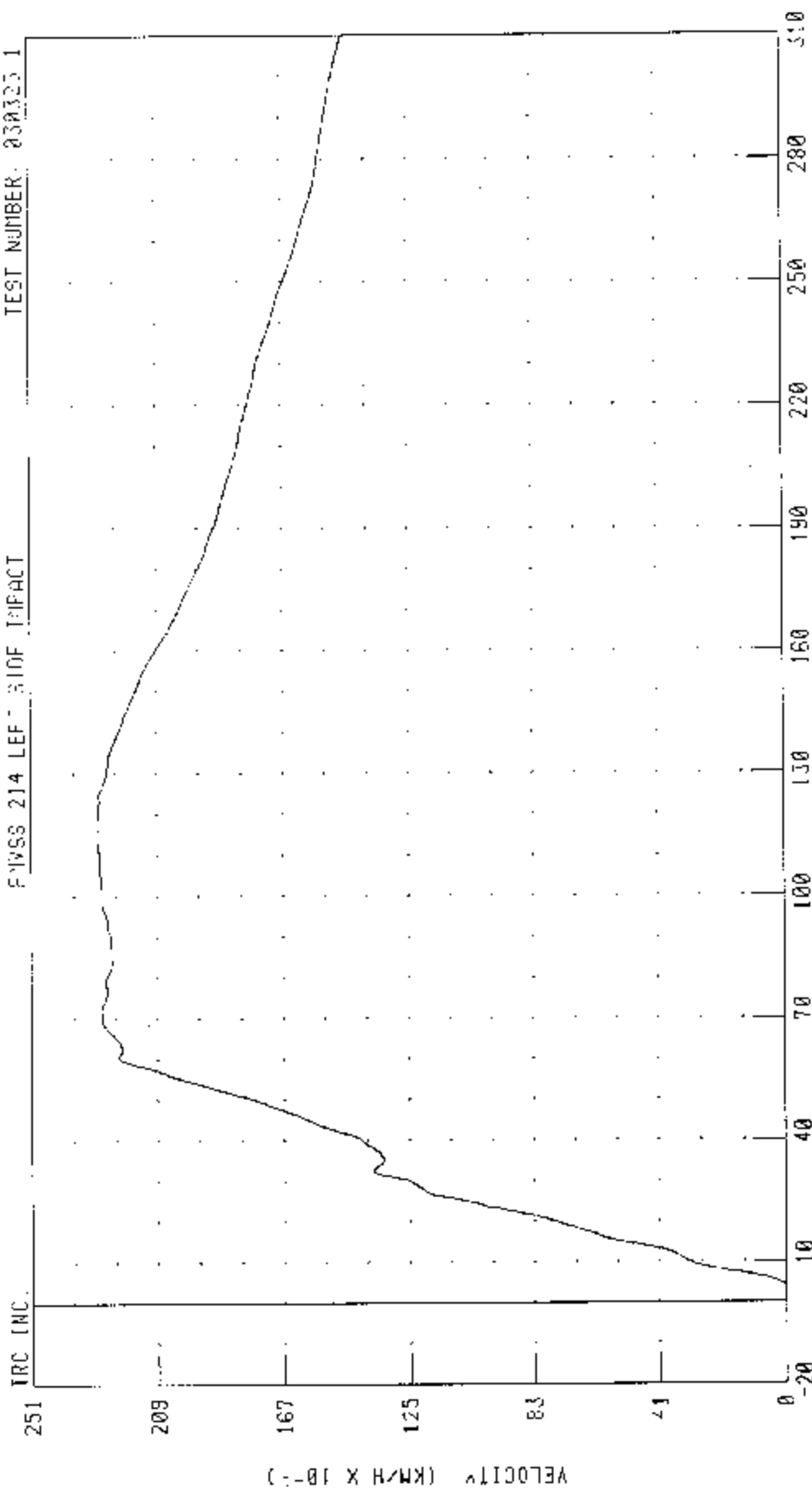
CHANNEL: RFSYGI FILTER: 24 CLASS: 50

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LE-1 SIDE OF 2001 HONDA ACCORD

RIGHT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY

FWSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



TIME (MS)

PEAK DATA: 23.02 KM/H @ 112.64 MS; 0.00 KM/H @ 3.12 MS

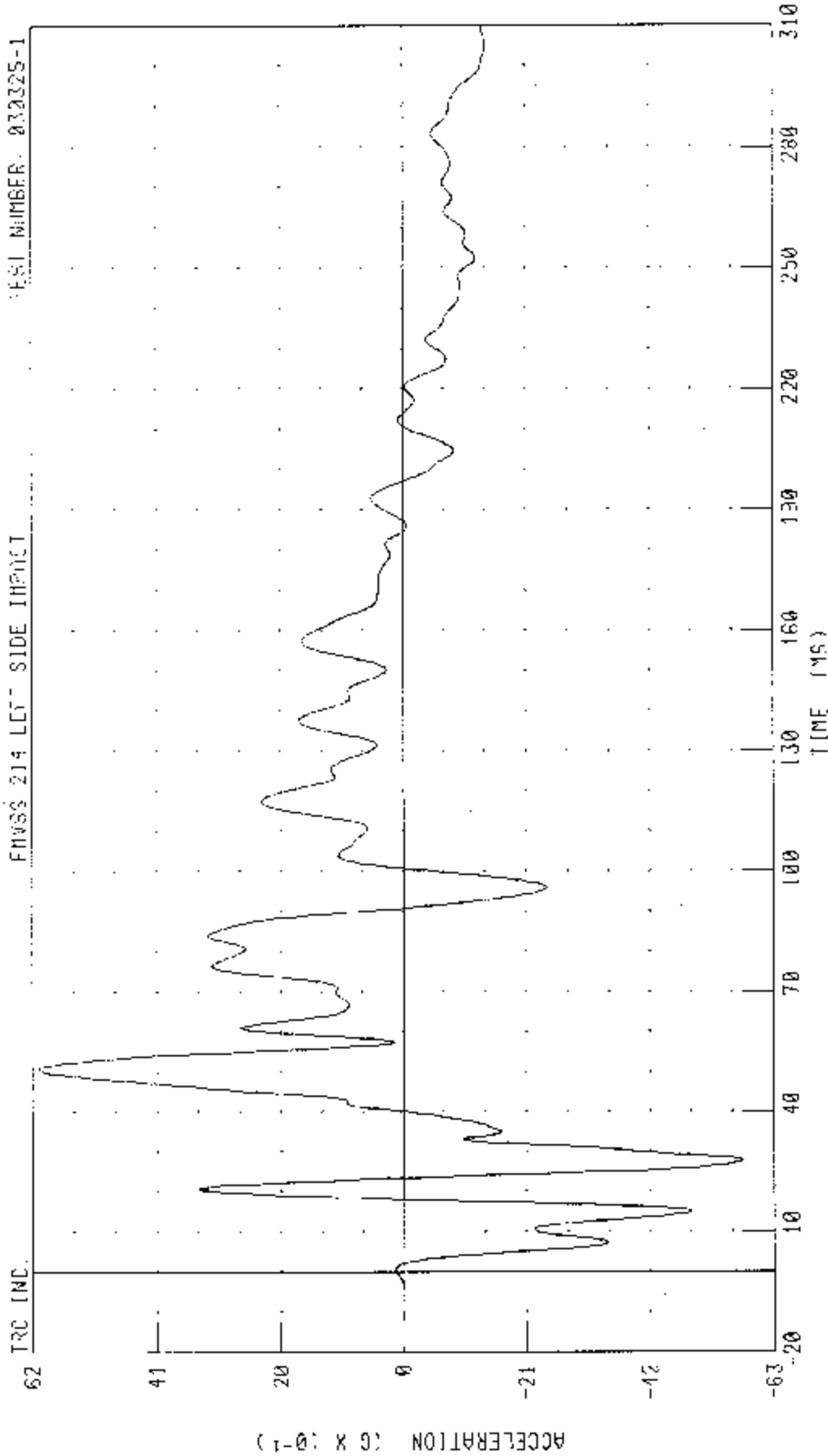
CHANNEL: RFSYV1 FILTER: CH CLASS 180

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFENDANT BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE GILL AT FRONT SEAT Z-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1

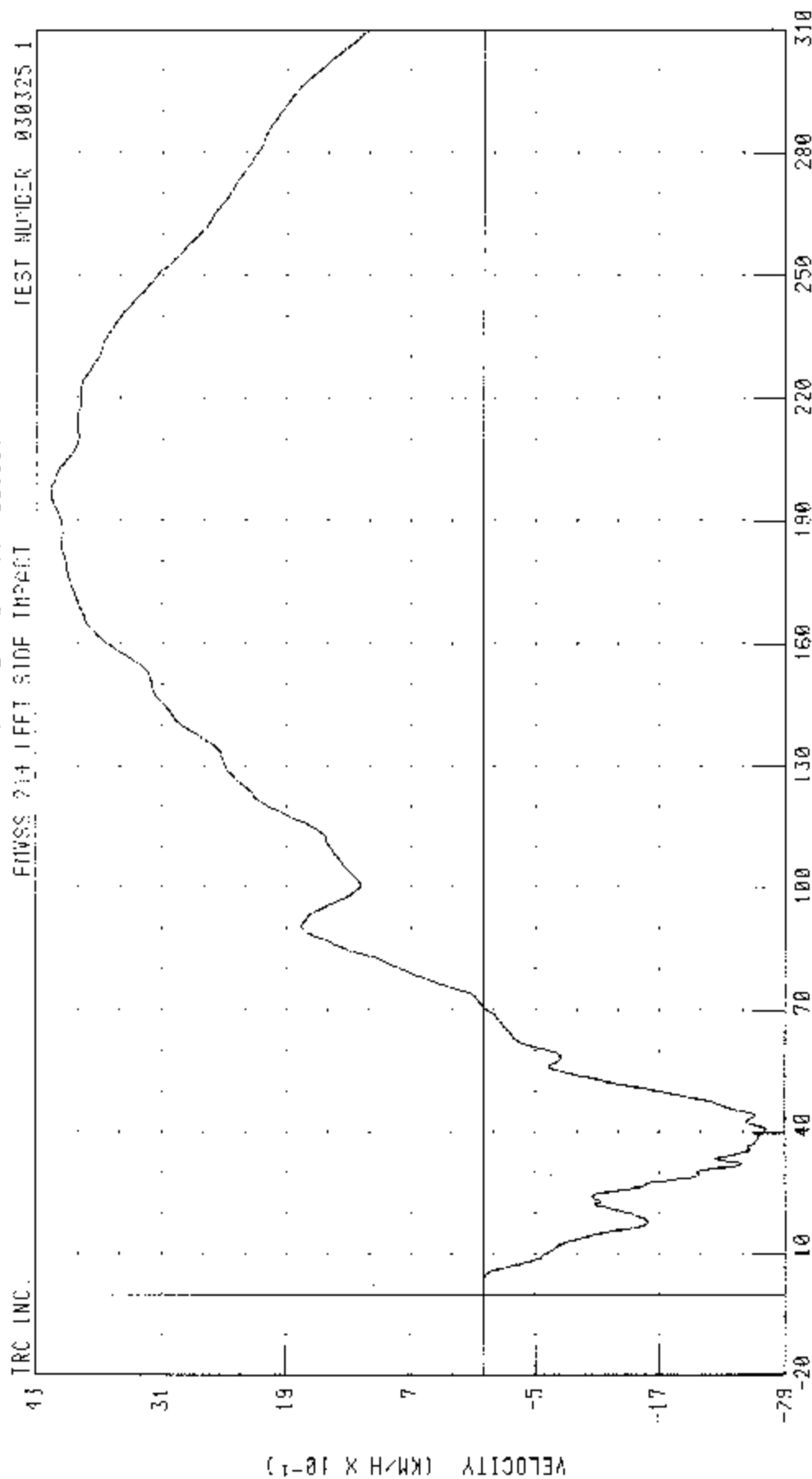


CHANNEL: RFSZG1 FILTER: CH CLASS 60

WAVE DATA: 0 20 0 0 50 80 MS, -5.78 0 0 27.84 MS

55/28 KPH 90 DEGREE SLIDE IMPACT (MOVING DETONABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SLIT 3" FRONT SEAL Z-AXIS VELOCITY

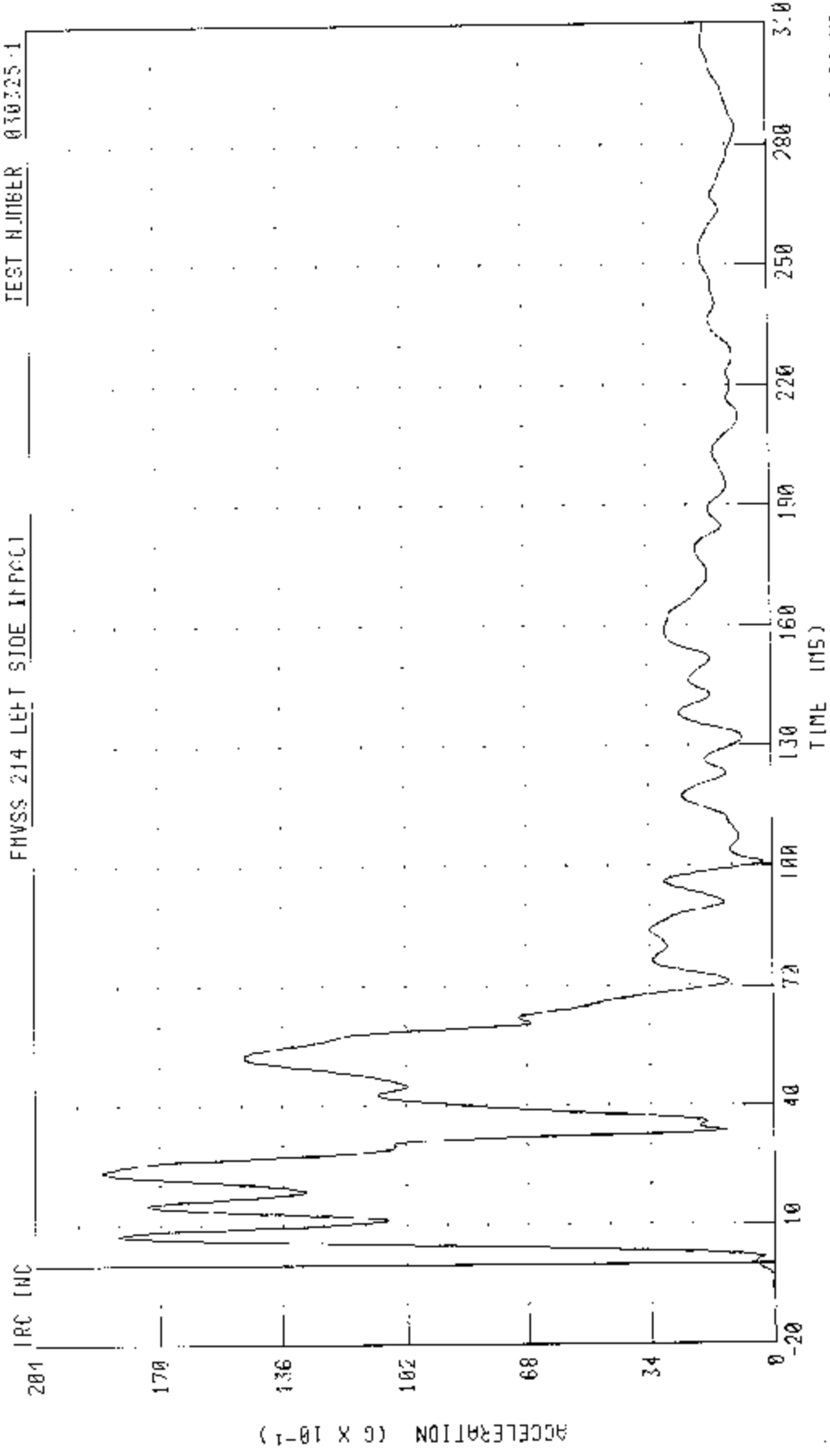


PEAK DATA 4.16 KM/H @ 197.92 MS, -2.71 KM/H @ 40.72 MS

CHANNEL: RFSZV1 FILTER CH CLASS 180

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING OFFSHOULDER BARRIER) INTO LEFT SIDE OF 2003 HINDEN ACCORD

RIGHT SIDE STILL AT FRONT SEPT. RESULTANT ACCELERATION

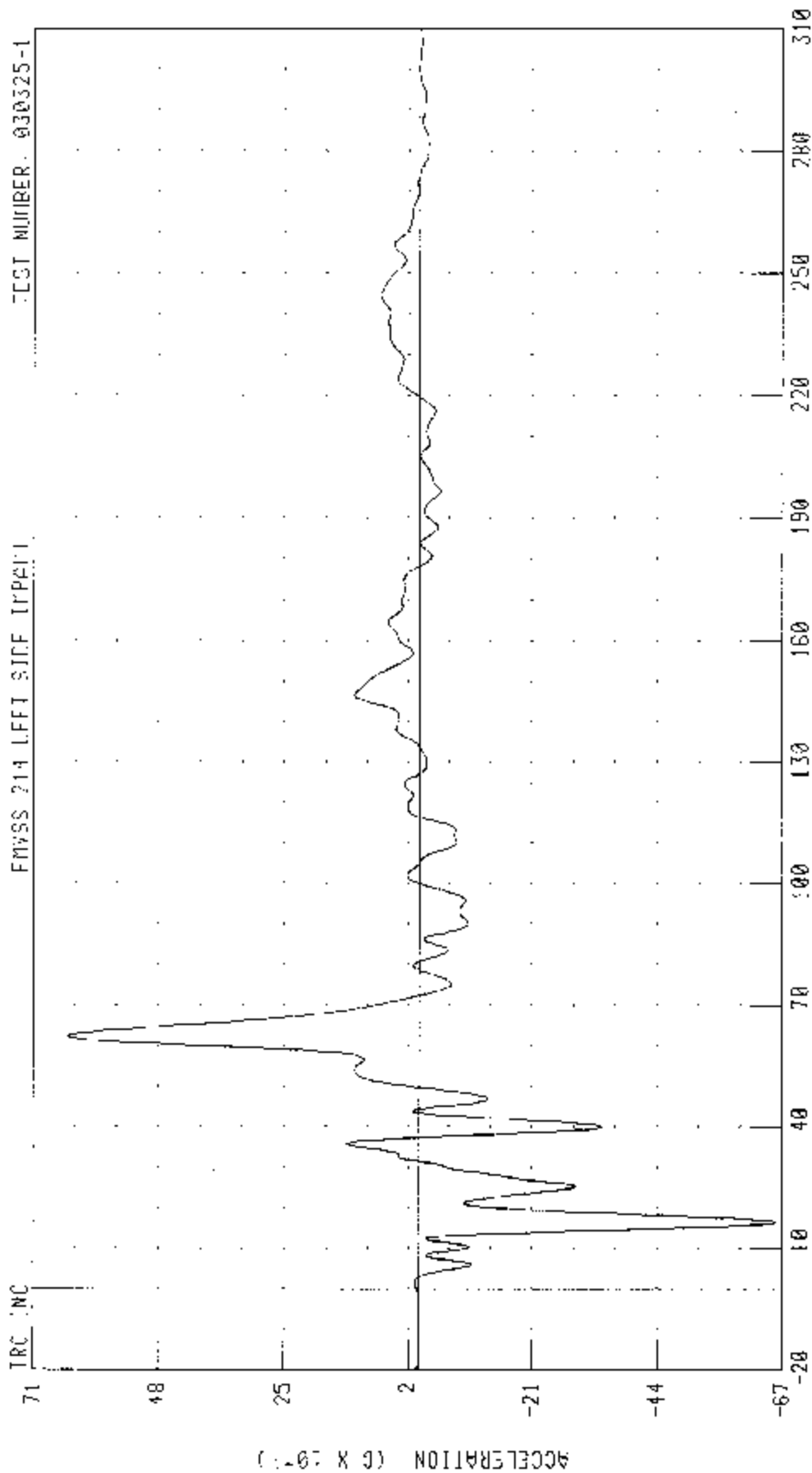


55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SILL AT REAR SEAT X-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



TIME (MS)

CHANNEL RRSX01 FILTER CH CLASS 60

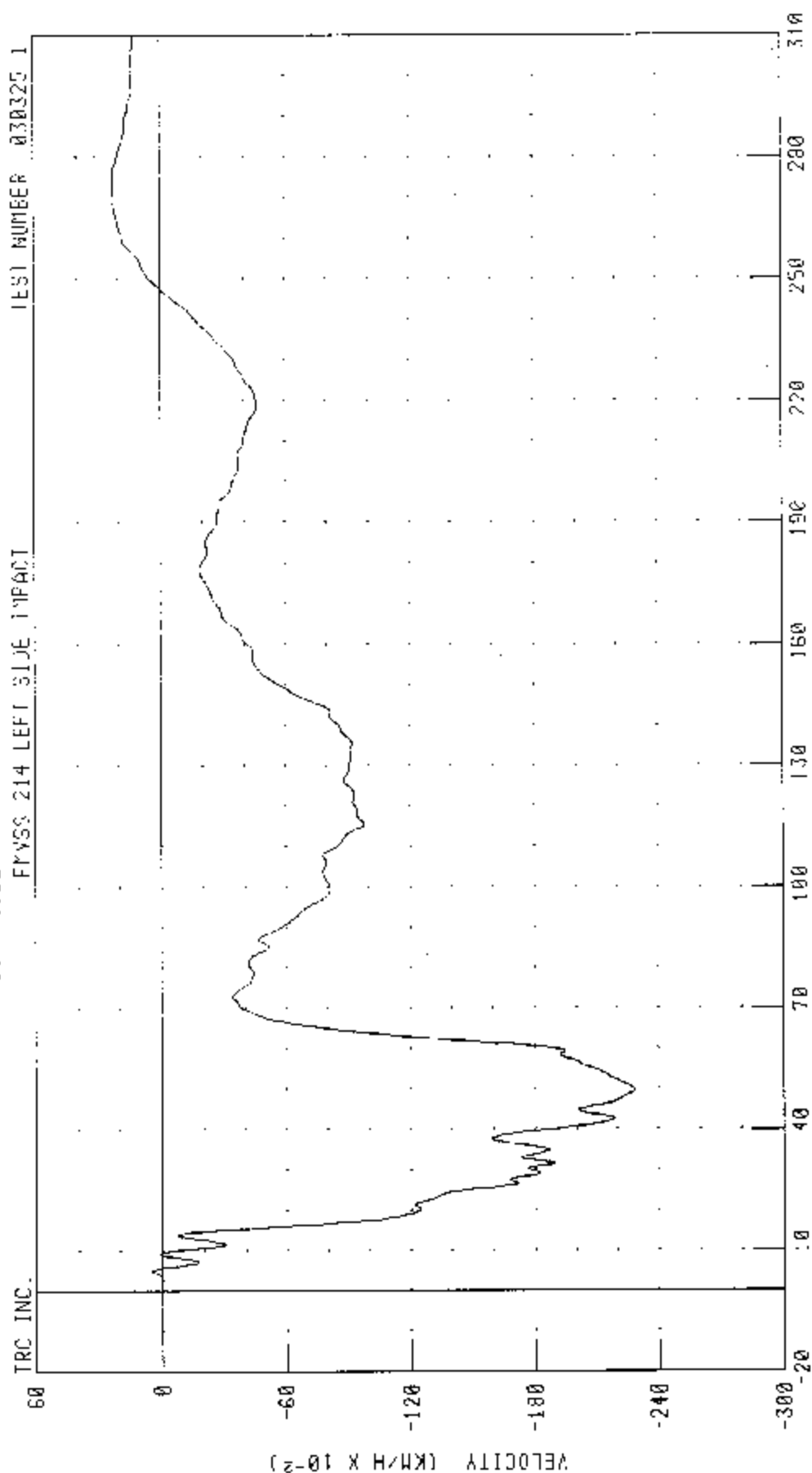
PEAK DATA: 6 46 0 0 52 48 MS; -6 60 0 0 16 40 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HONDA ACCORD)

RIGHT SIDE SILL AT REAR SEAT X AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



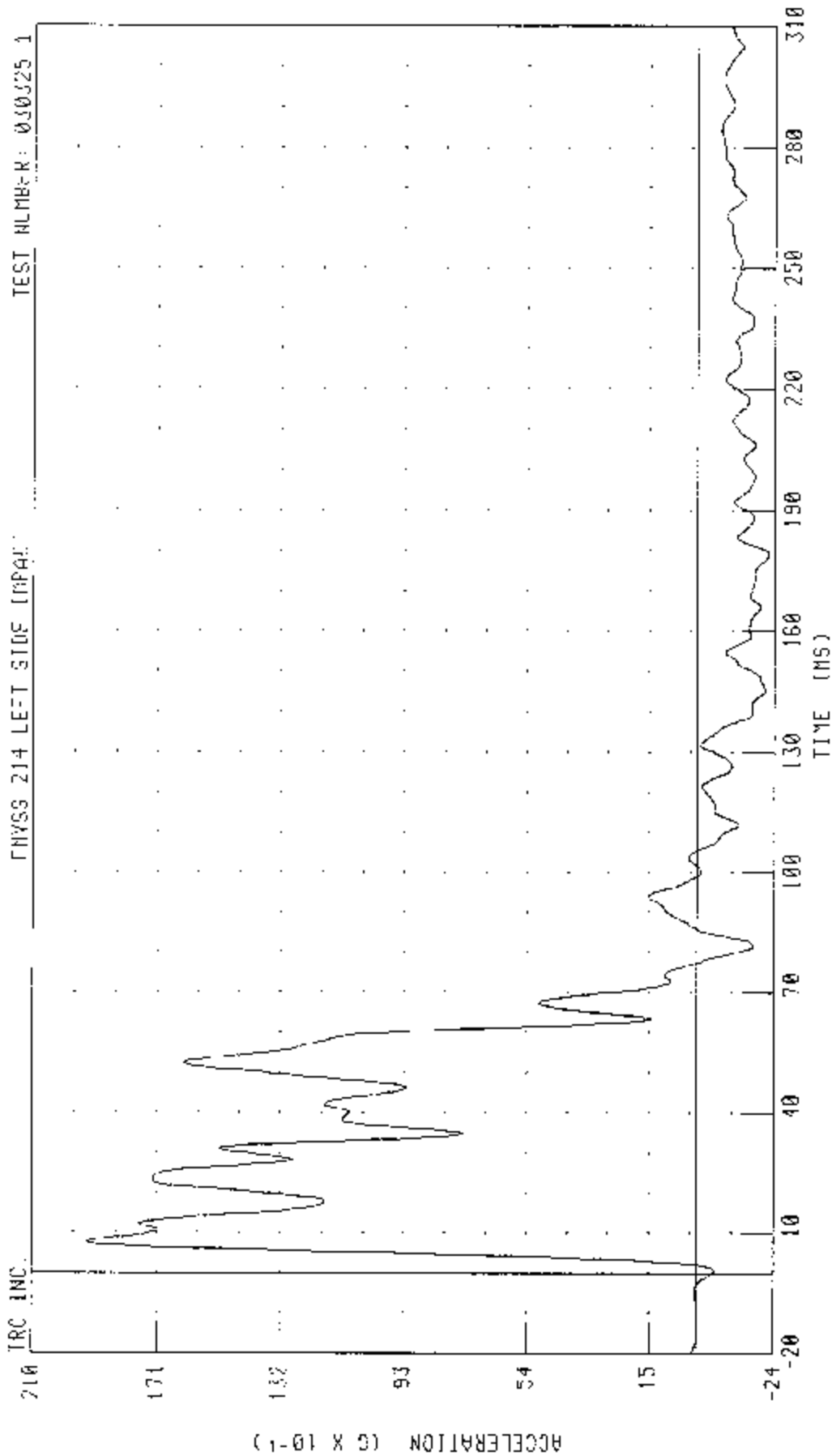
TIME (MS)

PEAK DATA 0 23 KM/H @ 273 12 MS; -2 28 KM/H @ 49 00 MS

CHANNEL RPSXV1 FILTER: CH. CLASS 180

55/28 KPII 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SEAT AT REAR SEAT Y-AXIS ACCELERATION



CHANNEL: RRSYG1 FILTER: CF CLASS: 60

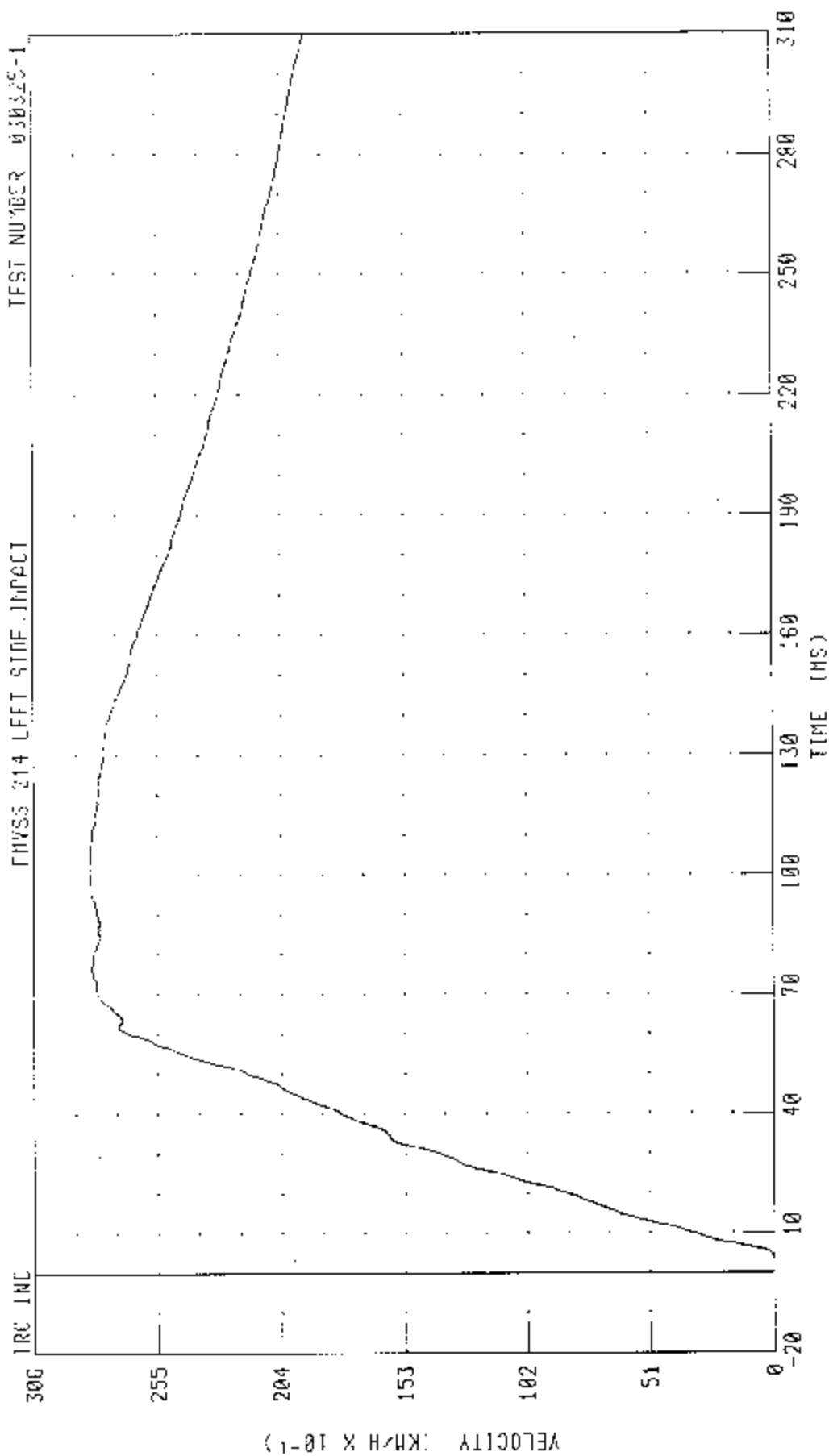
PEAK DATA 19.31 G @ 7.76 MS; -2.21 G @ 179.84 MS

55.28 MPH 30 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HINHA RECORD

RIGHT SIDE SILL AT REAR SEAT Y AXIS VELOCITY

CHASS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



TIME (MS)

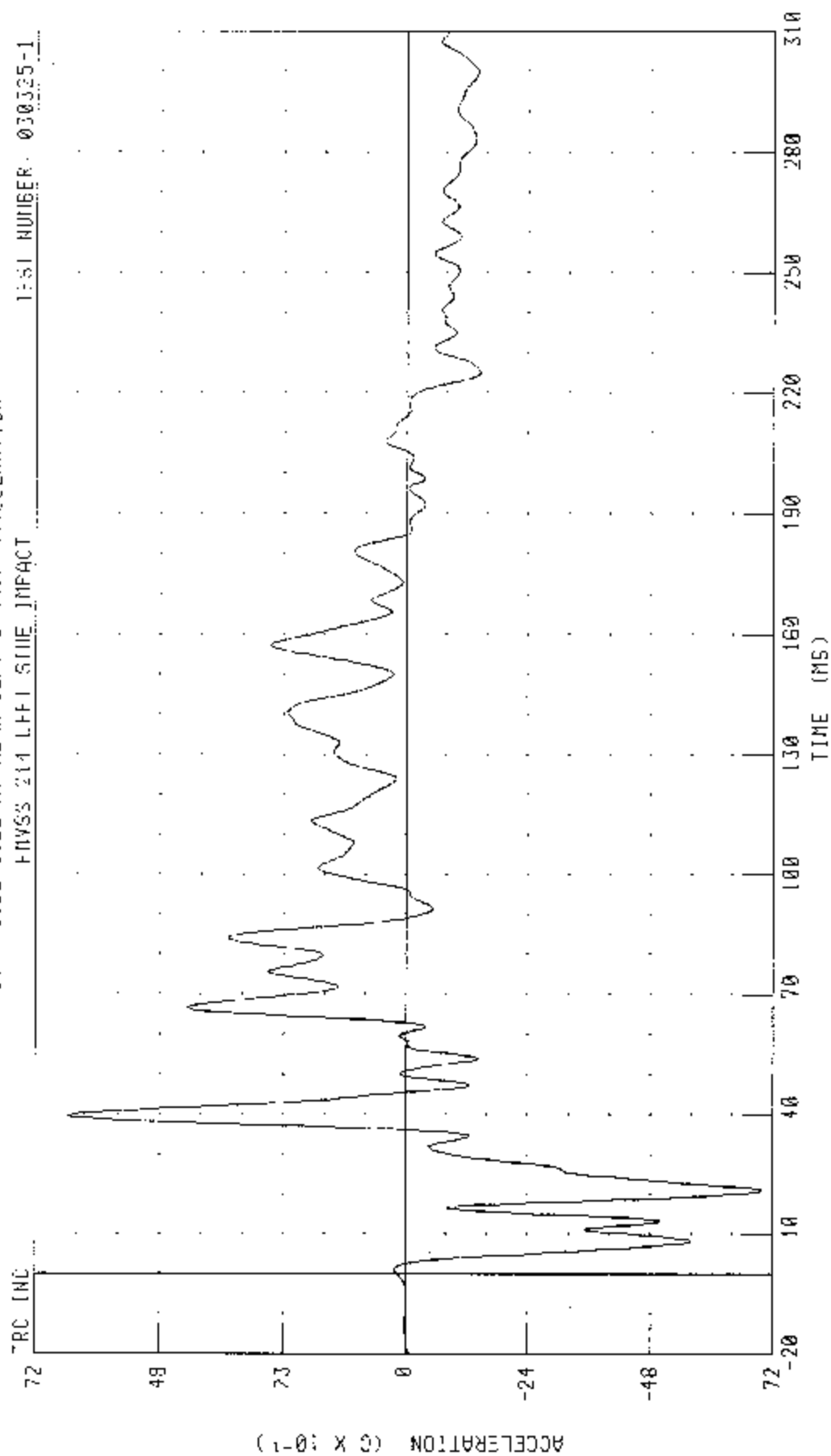
PEAK DATA: 28.34 CHASS 106 72 MS: 0.00 KPH 0.00 MS

CHANNEL: RRSYV1 FILTR: CH: CHASS 180

55/28 KPH 00 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HINCA ACCORD

RIGHT SIDE CILL AT REAR SEPT 2-4X15 ACCELERATION

TEST NUMBER: 030325-1



CHANNEL: RRSZC1 FILTER: CH. CLASS 60

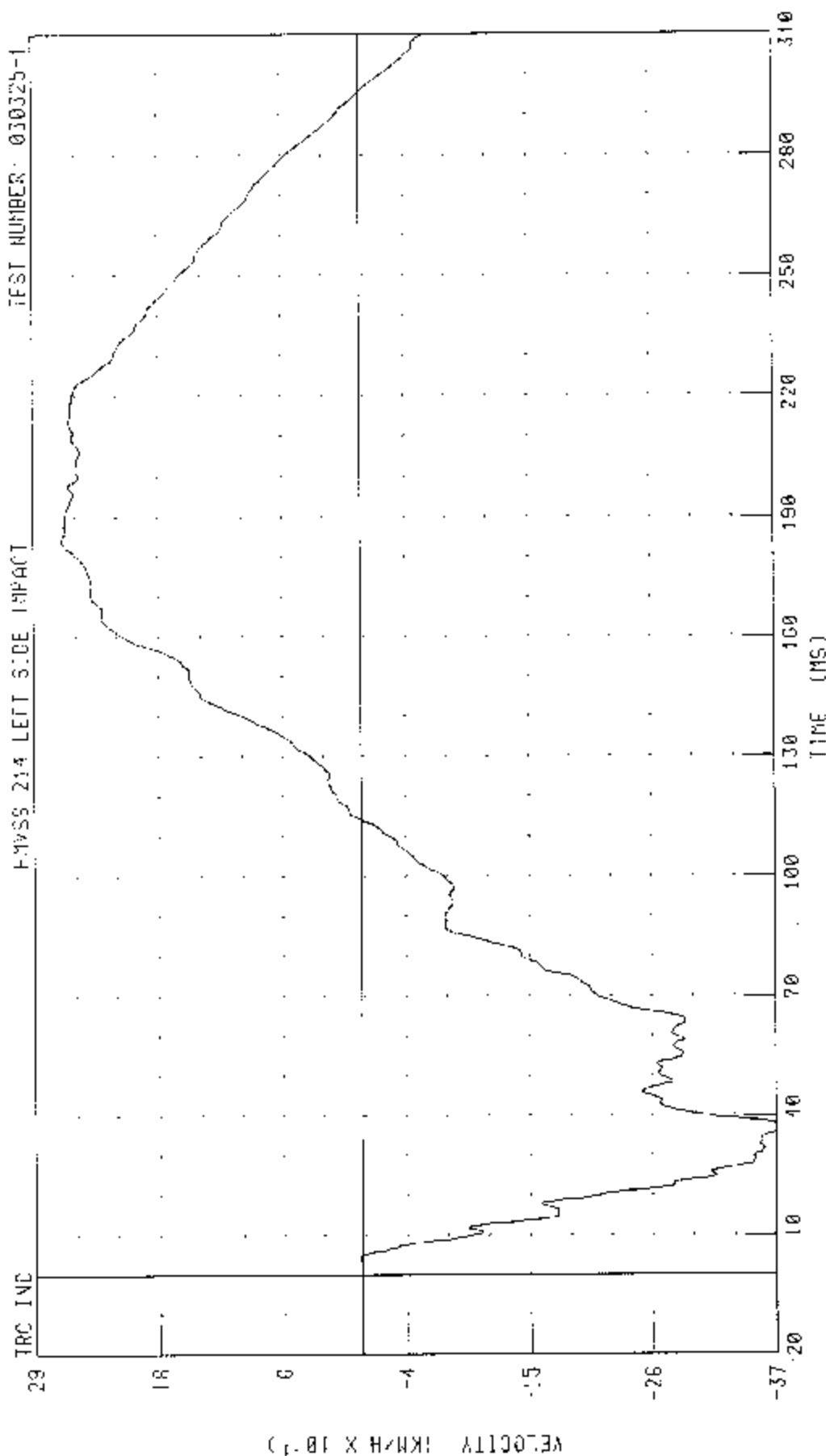
PEAK DATA: 6.56 G @ 39.76 MS, -6.97 G @ 71.20 MS

55/20 KM/H 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SILL AT REAR SEAT Z-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



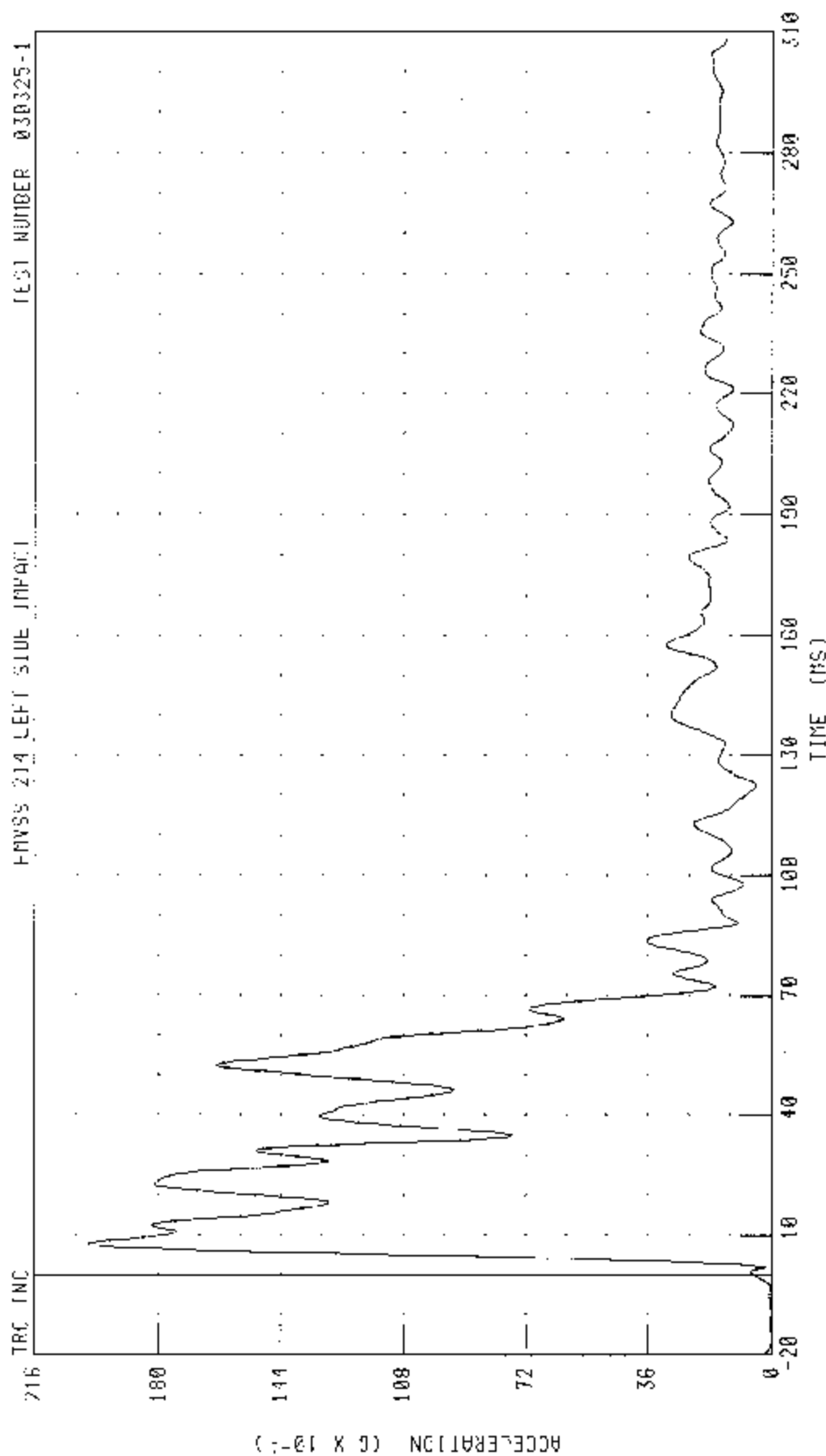
PEAK DATA: 2.65 KM/H @ 184.00 MS; -3.79 KM/H @ 37.28 MS

CHANNEL: FR52V1 FILTER: CH. CLASS 180

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT TEST NUMBER 030325-1



CHANNEL: RRSRC1 FILTER: CH. CLASS 60

PEAK DATA 20 0E 6 0 7 76 MS; 0 00 G 0 -7 96 MS

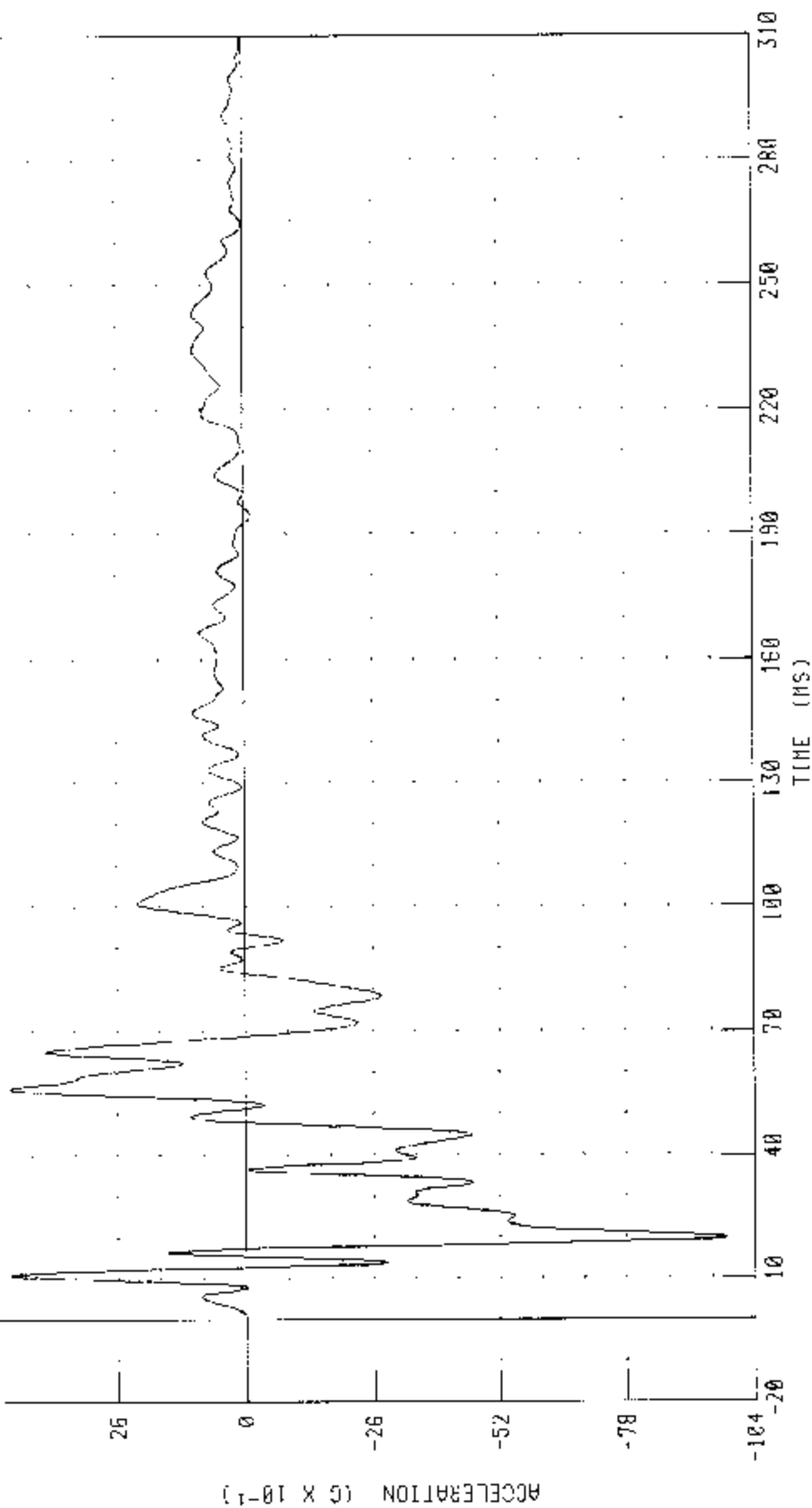
55/20 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

REAR FLOORPAN FLOOR AXLE X-AXIS ACCELERATION

TEST NUMBER 030325-1

FHVS 214 LEFT SIDE IMPACT

IRC INC



CHANNEL: RDKXG1

FILTER: CH CLASS 60

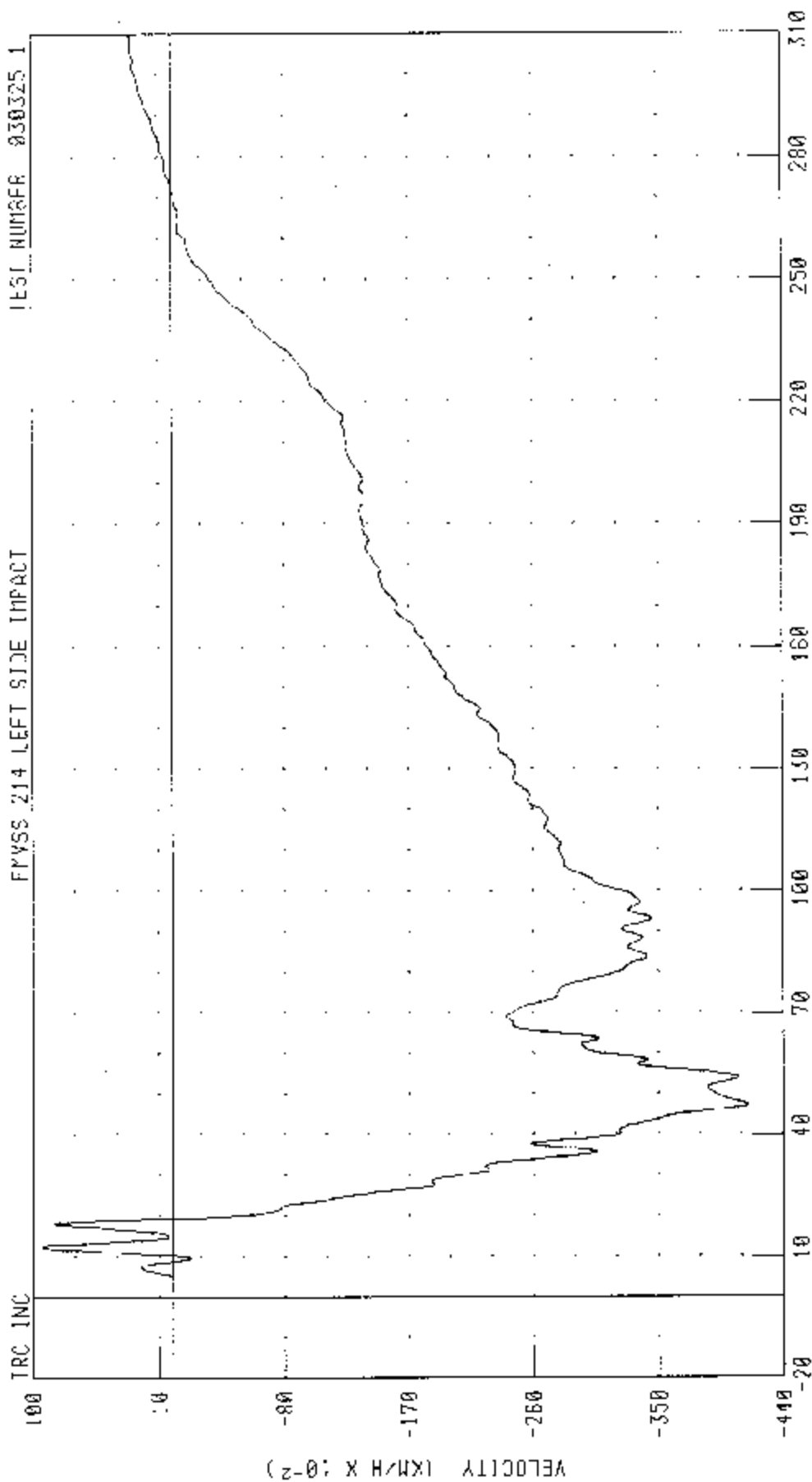
PEAK DATA: 476 G @ 56.16 MS, -9.82 G @ 19.84 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2002 HONDA ACCORD

REAR FLOORPAN ABOVE AXLE X-AXIS VELOCITY

FYSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



TIME (MS)

PEAK DATA 0.94 KM/H @ 12.56 MS, -4.14 KM/H @ 17.20 MS

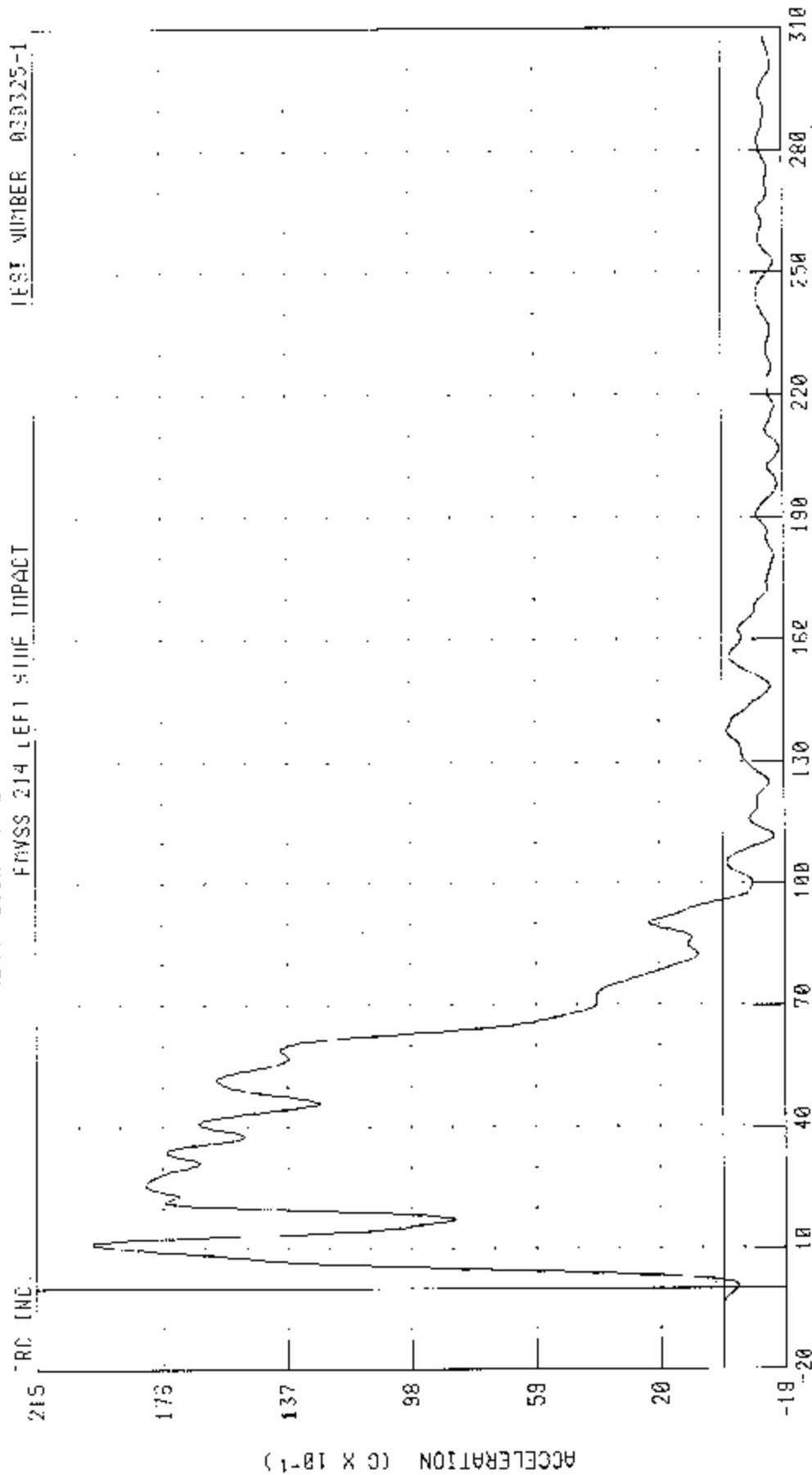
CHANNEL R0KXV1 FILTER CH. CLASS 100

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

REAR FLOORPAN ABOVE AXLE Y-AXIS ACCELERATION

TEST NUMBER 030325-1

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: RDKYGI FILTER: CH CLASS 60
PEAK DATA 19 77 0 11 20 MS, -1.82 G @ 206 88 MS

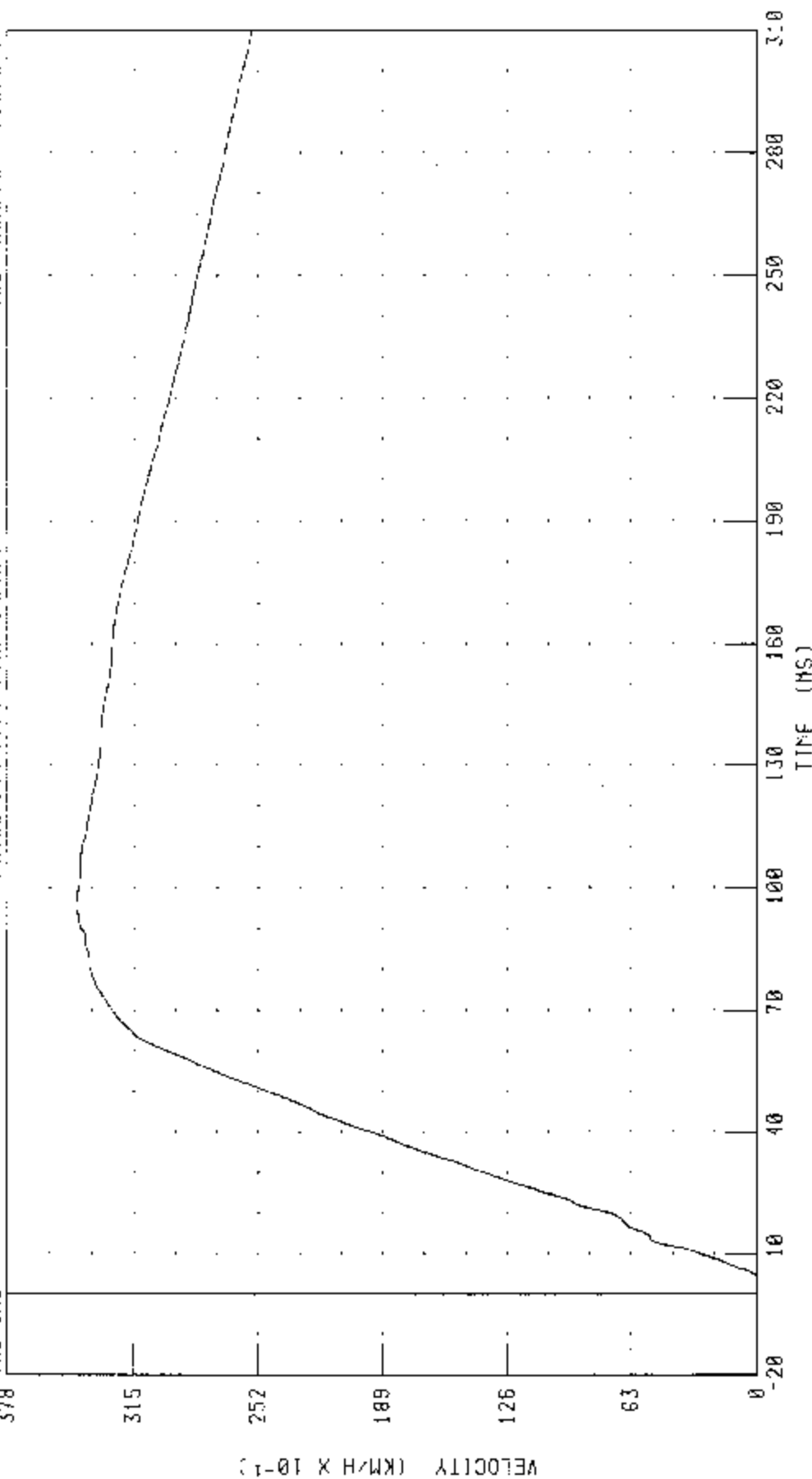
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

REAR FLOORPAN ABOVE PALE Y-AXIS VELOCITY

TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

TRC INC



CHANNEL: RDKYV1 FILTER: CH. CLASS 180

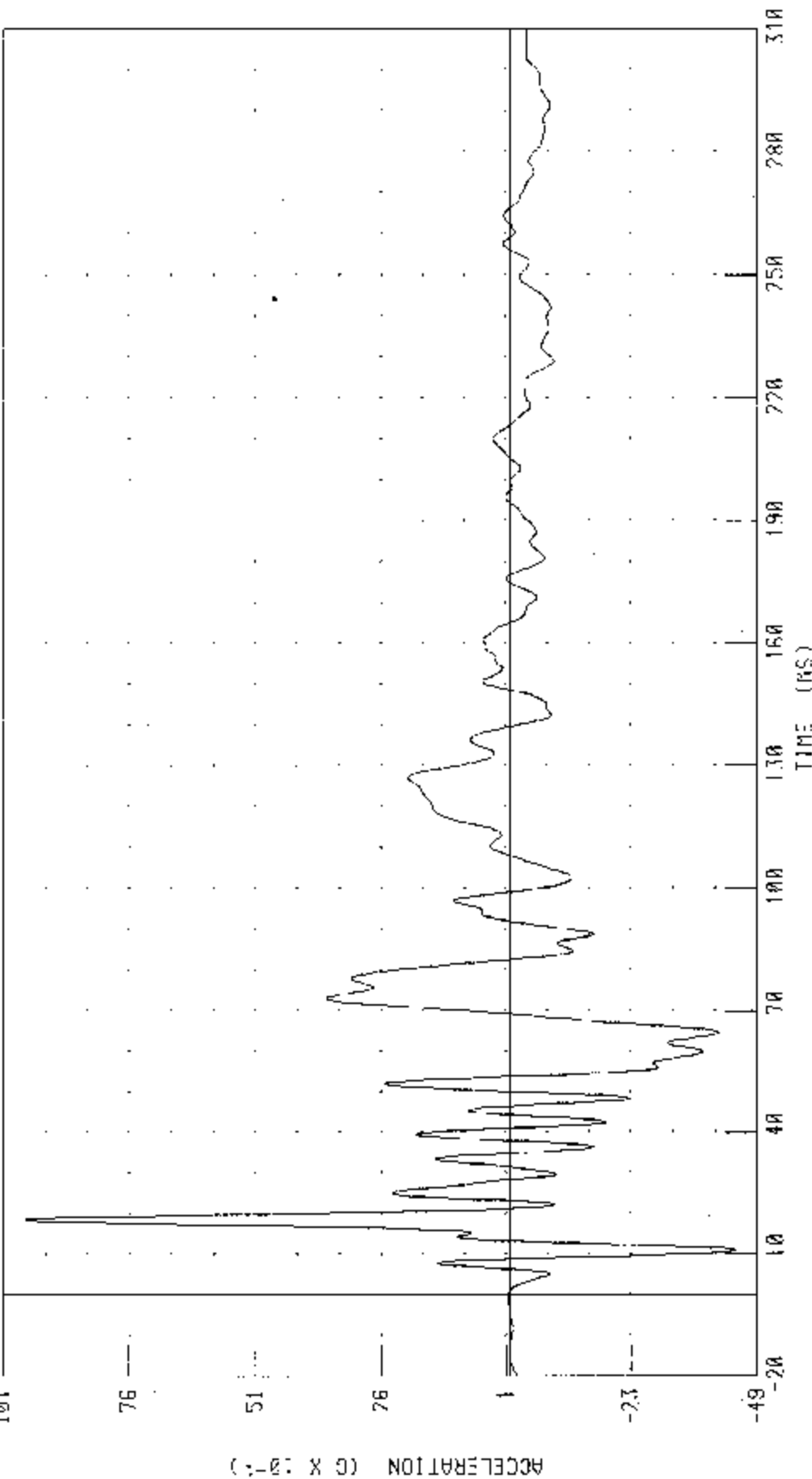
PEAK DATA: 34.42 KM/H @ 95.76 MS, 0.00 KM/H @ 3.76 MS

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

REAR FLOORPAN ABOVE AXLE Z-AXIS ACCELERATION

TEST NUMBER 030325-1

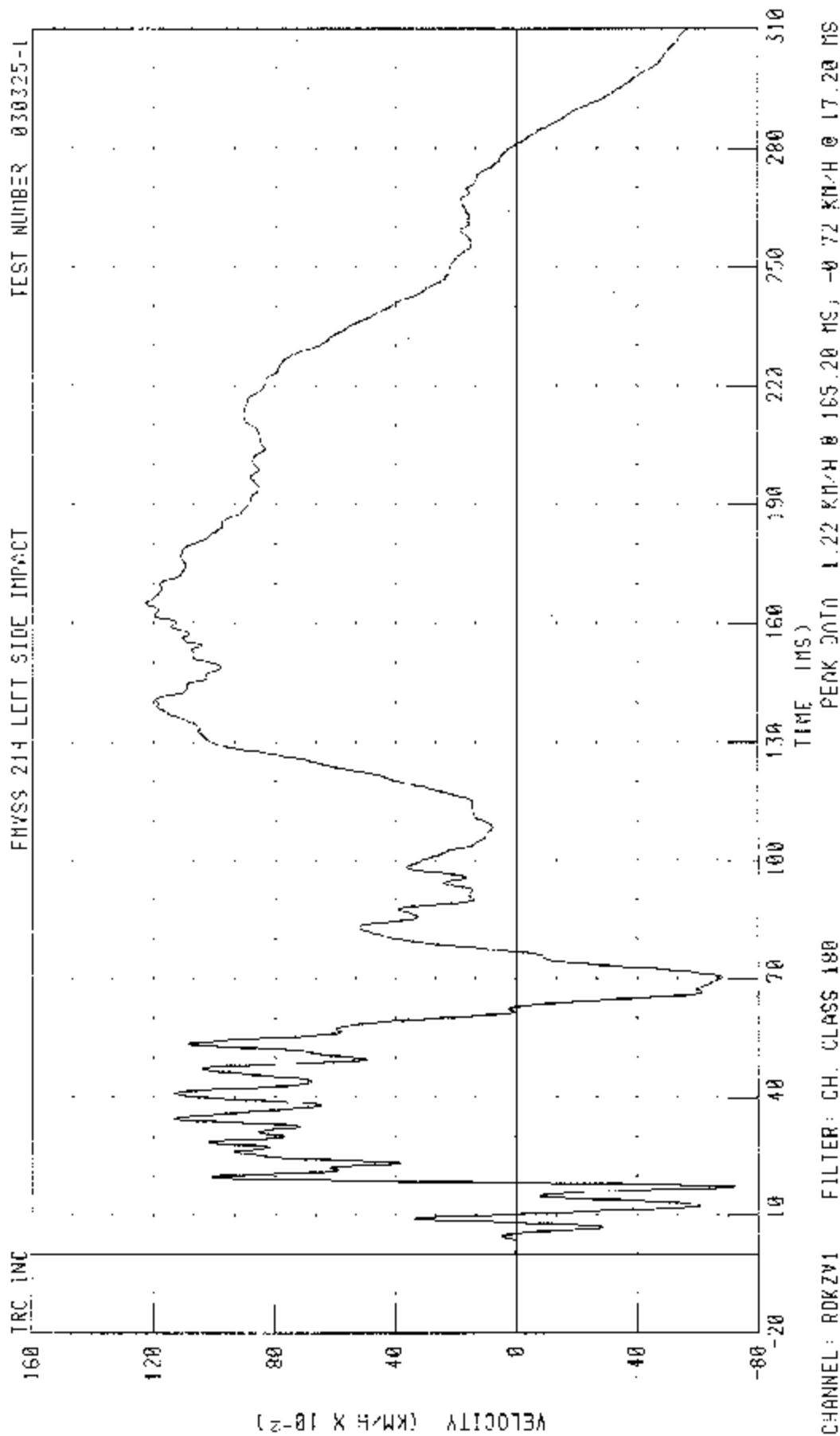
TRC INC.



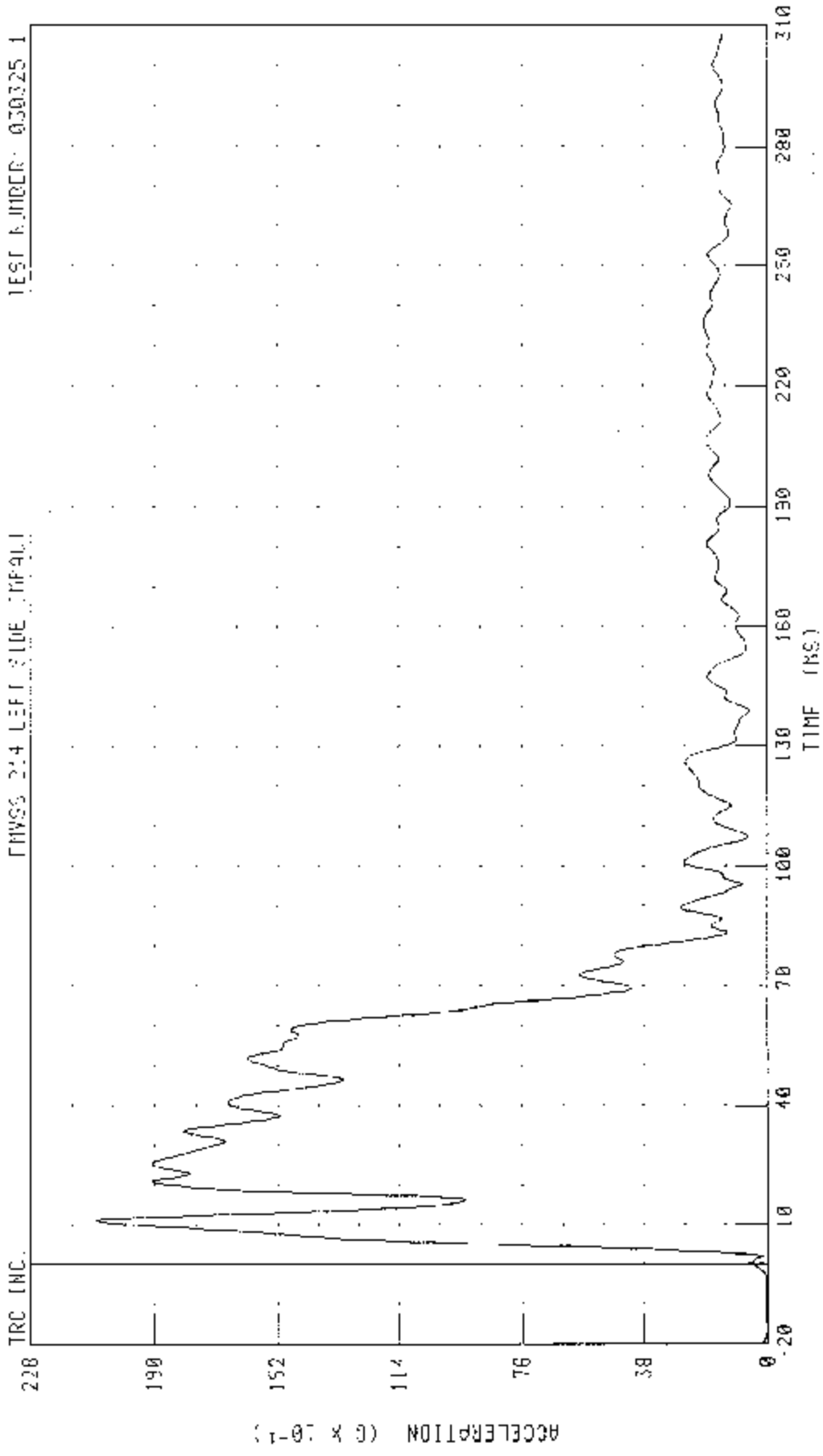
CHANNEL RDXZG1 FILTER CH. CLASS 60

PEAK DATA 9.65 0 0 18.48 MS; -4.40 0 0 10 88 MS

55/20 KPH 30 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HUNDON ACESUR
 3000 FLOORPAN ABOVE AXLE /-AXIS VELOCITY



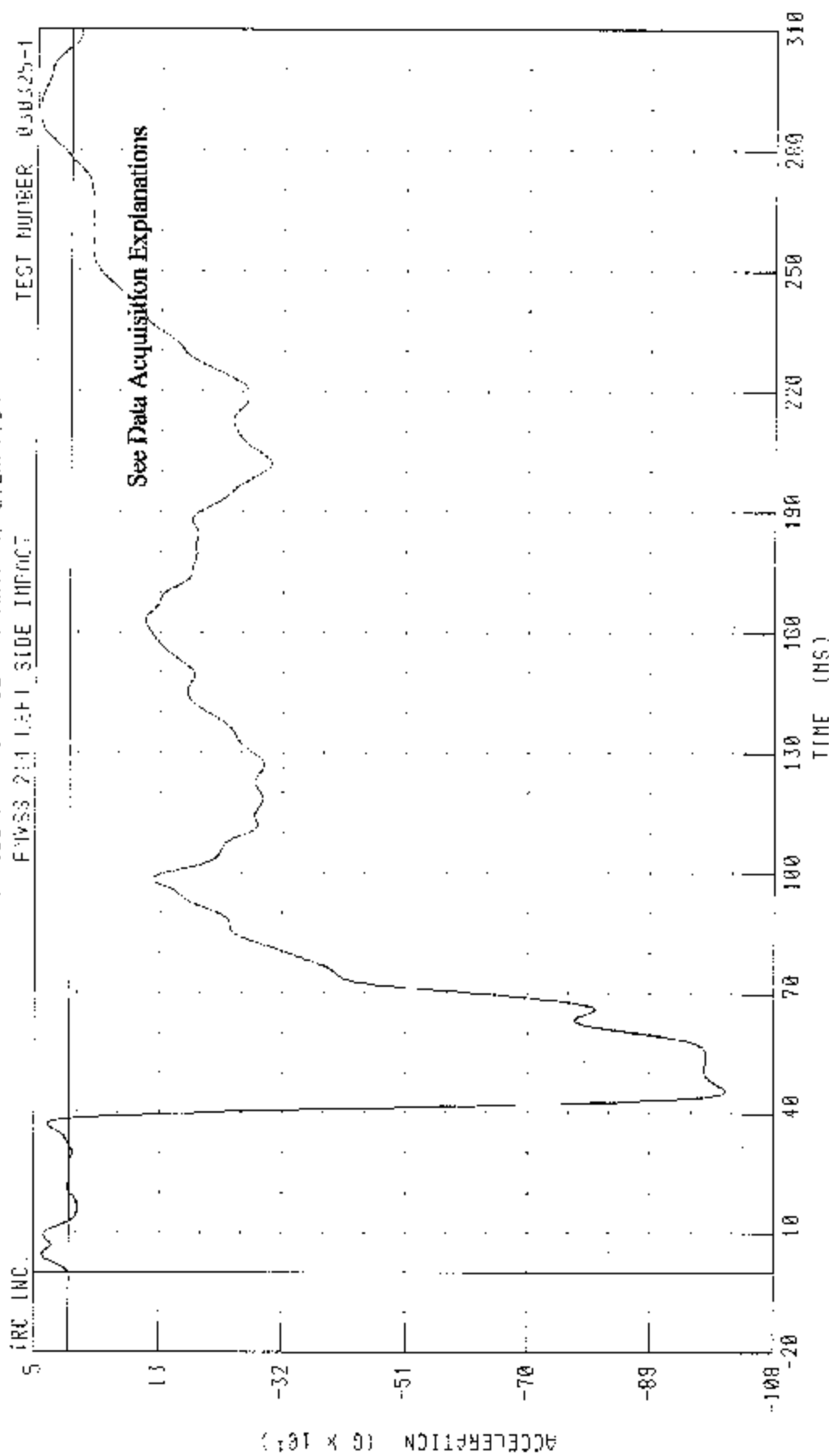
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 BUICK ALLURE
 REF FLOORPLATE GROOVE AXLE RESULTANT ACCELERATION



CHANNEL RUCRCI FILTER CH. CLASS 60

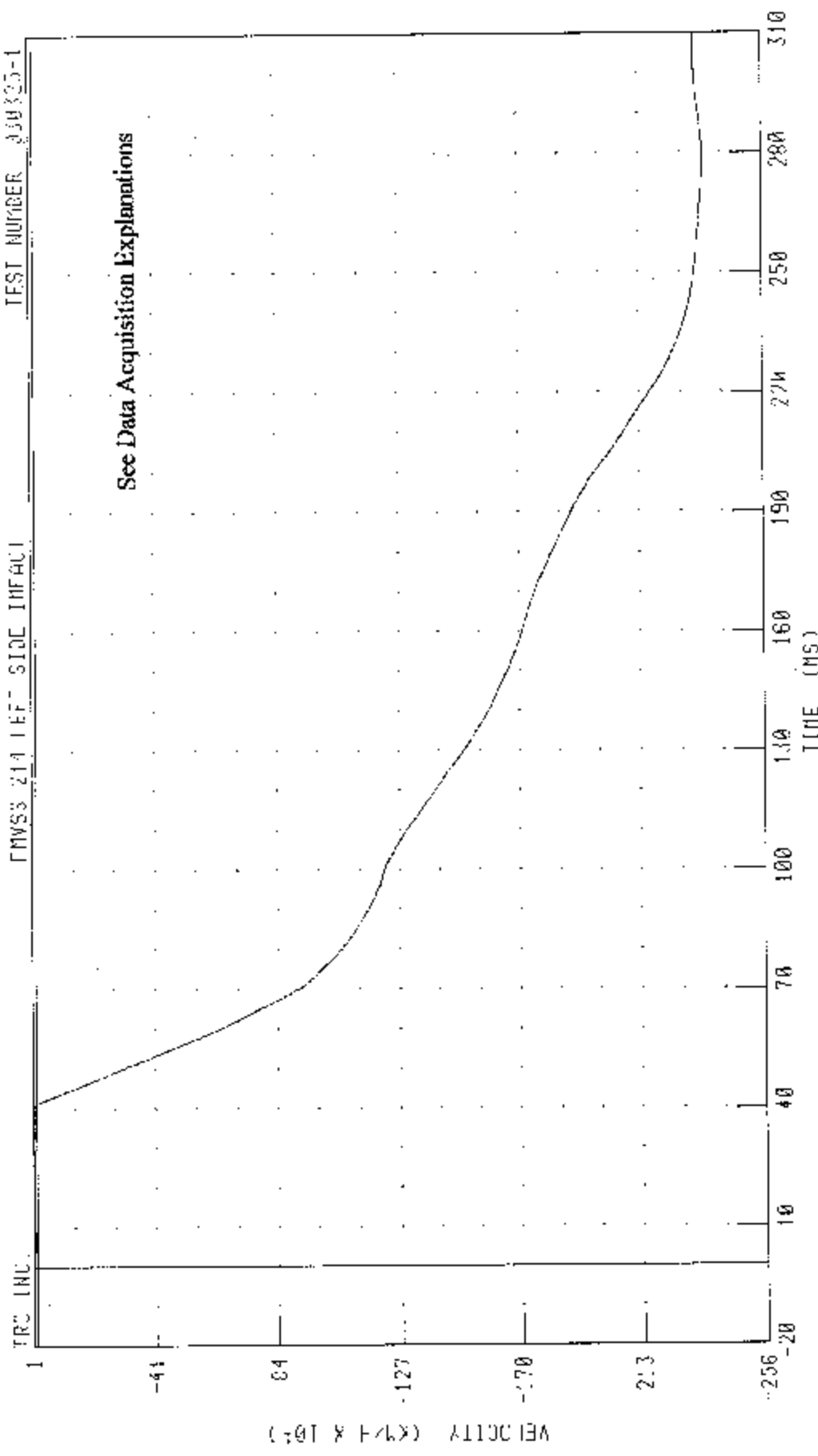
PEAK DATA: 28.79 G @ 11.04 MS; 0.00 G @ -16.56 MS

55.28 MPH 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT SIDE SILL AT FRONT SEAT Y AXIS ACCELERATION



CHANNEL: LFSYC1 FILTER: CII CLASS 60 PEAK DATA 47.76 G @ 288.28 MS, 1015.94 G @ 45.52 MS

55.28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HUMMER HATCHBACK
LEFT SIDE SILL AT FRONT LEFT Y-AXIS VELOCITY



PEAK DATA: 12.04 MPH @ 11.84 MS; -2359.97 KPH @ 278.48 MS

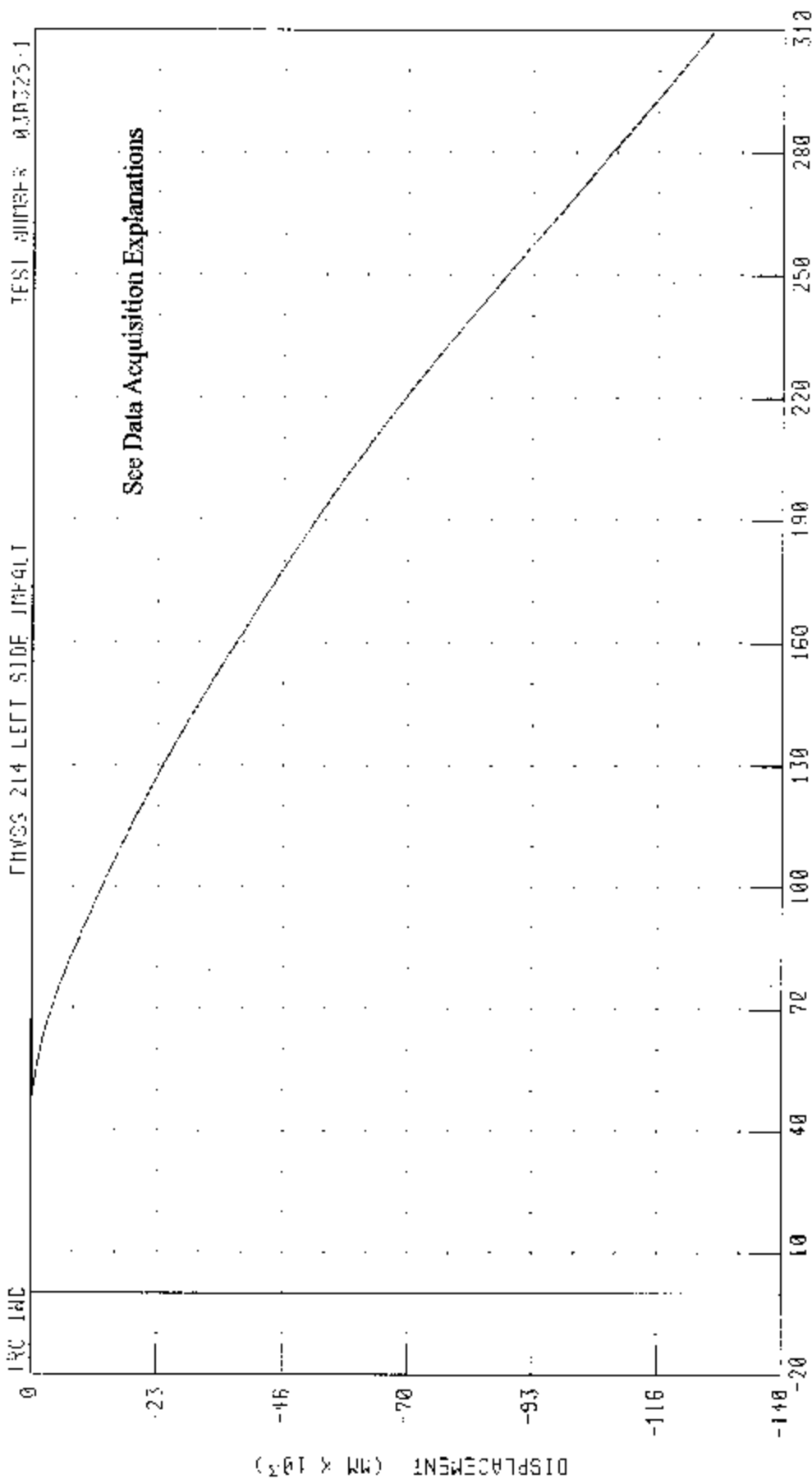
CHANNEL: LFSYV1 FILTER: CH. CLASS 180

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING INFORMANT CARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT SIDE SILL AT FRONT SEAT Y AXIS DISPLACEMENT

CHVSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



TIME (MS)

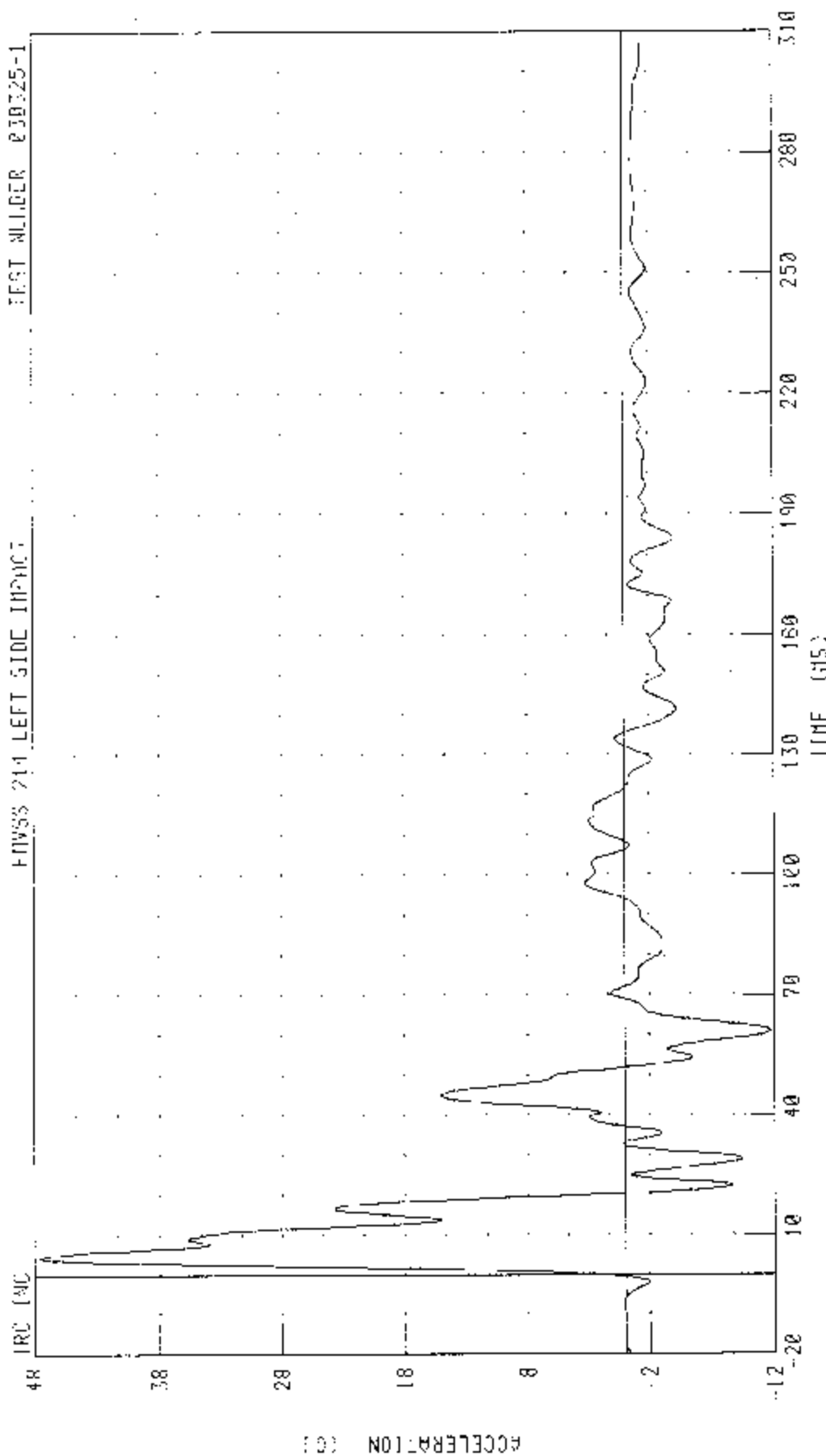
PEAK DATA 80 23 MPH @ 41 FS, -127639.00 MM @ 310 00 MS

CHANNEL: LFSY01 FILTER: CIL CLASS 130

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING OFFROADABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT SIDE SILL AT REAR SEAT Y AXIS ACCELERATION

FWSS 214 LEFT SIDE IMPACT TEST NUMBER 030325-1



CHANNEL: LRCYC1 FILTER: CH CLASS: 60

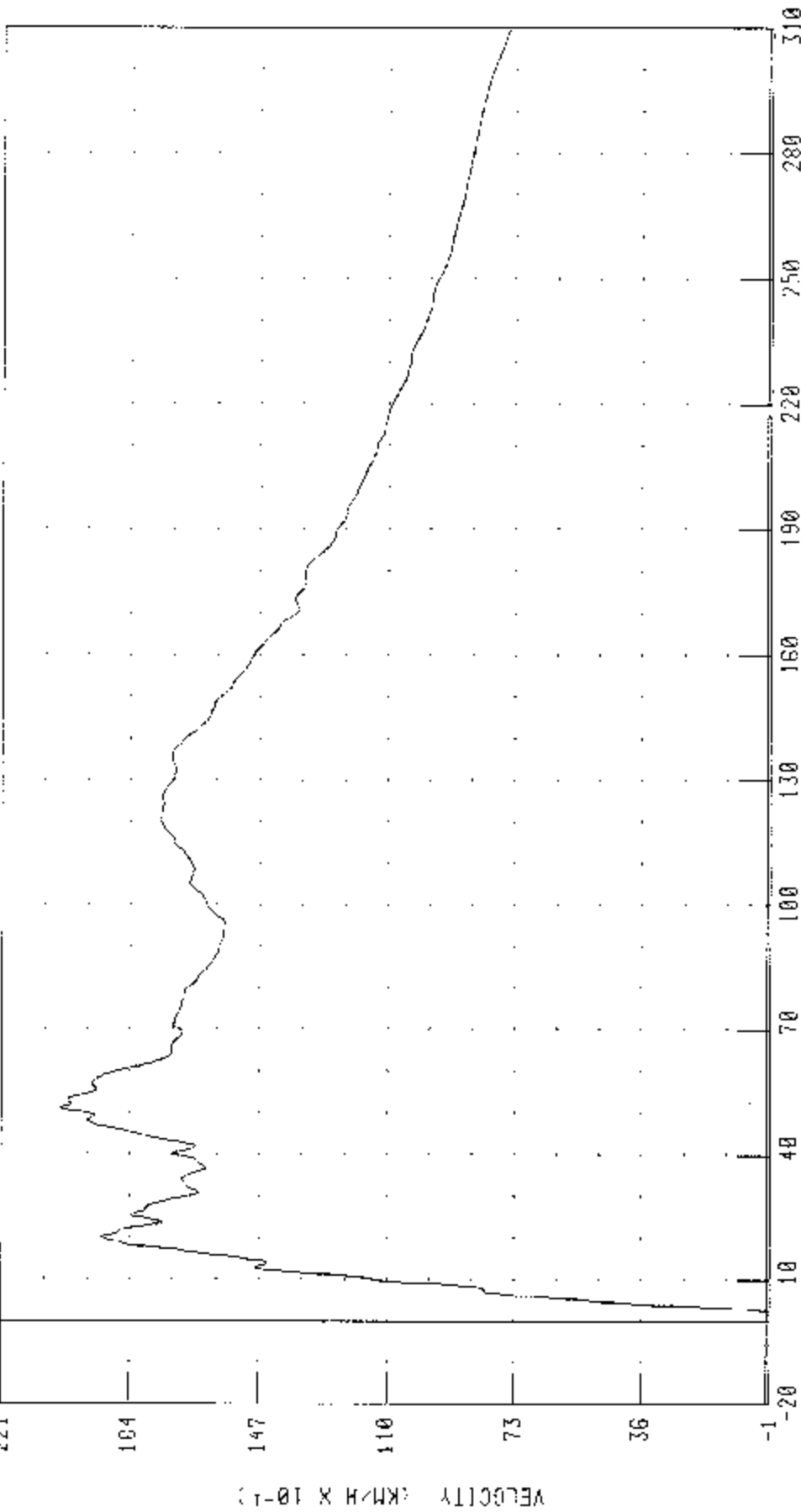
PEAK DATA: 47.53 G @ 4.40 MS, 11.63 G @ 60.96 MS

45/78 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT SIDE SILE AT REAR SEAT T-AXIS VELOCITY

TEST NUMBER 030325-1

IRC INC.



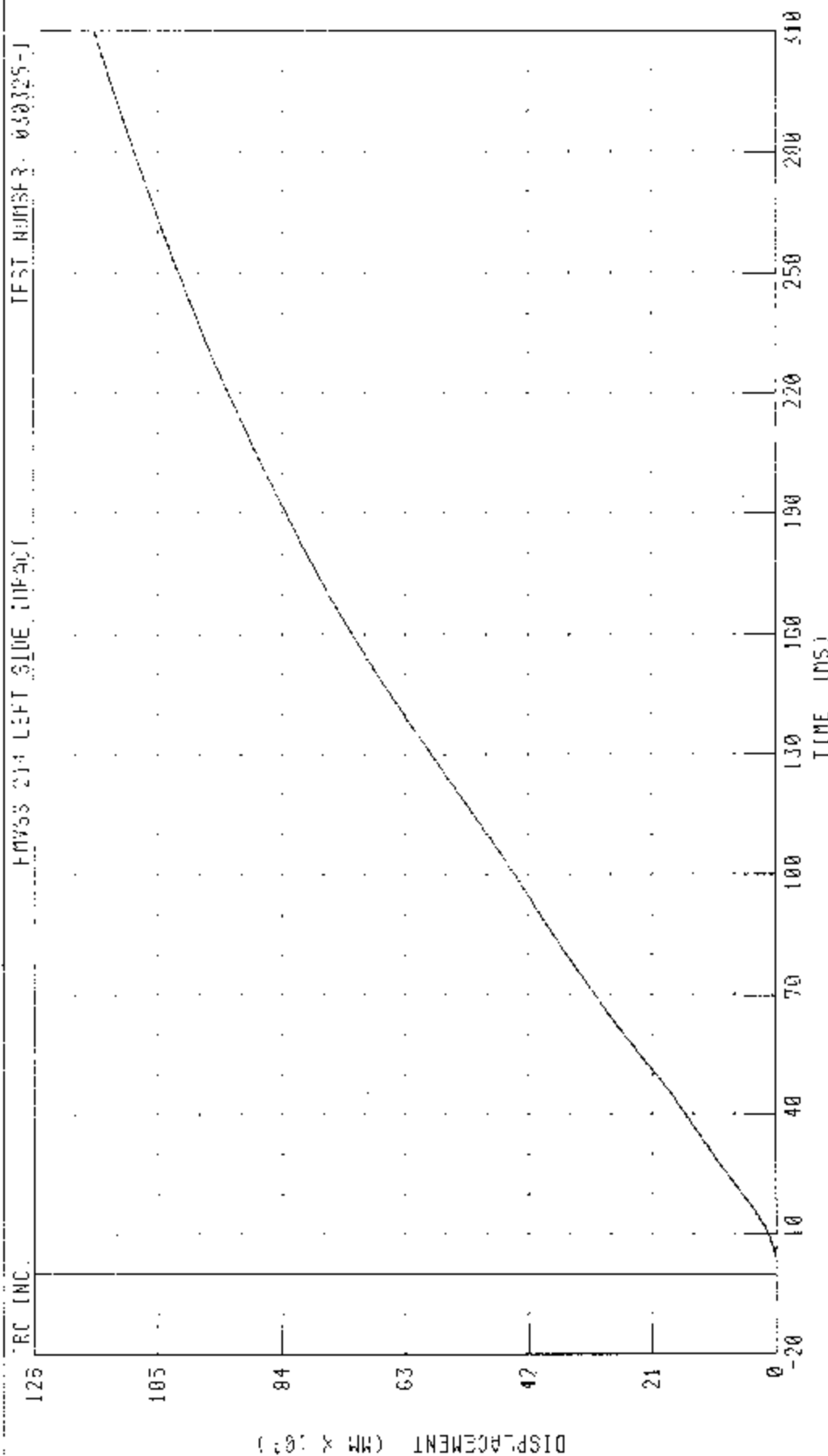
TIME (MS)

CHANNEL: LRSV1 FILTER: CH. CLASS 180

PEAK DATA 20.44 KM/H @ 51.12 MS; -0.10 KM/H @ 2.00 MS

55/28 KPH 90 DEG RTT SIDE IMPACT INVOLVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2000 HUNTER COUPOD

LEFT SIDE SILL AT REAR SEAT Y-AXIS DISPLACEMENT



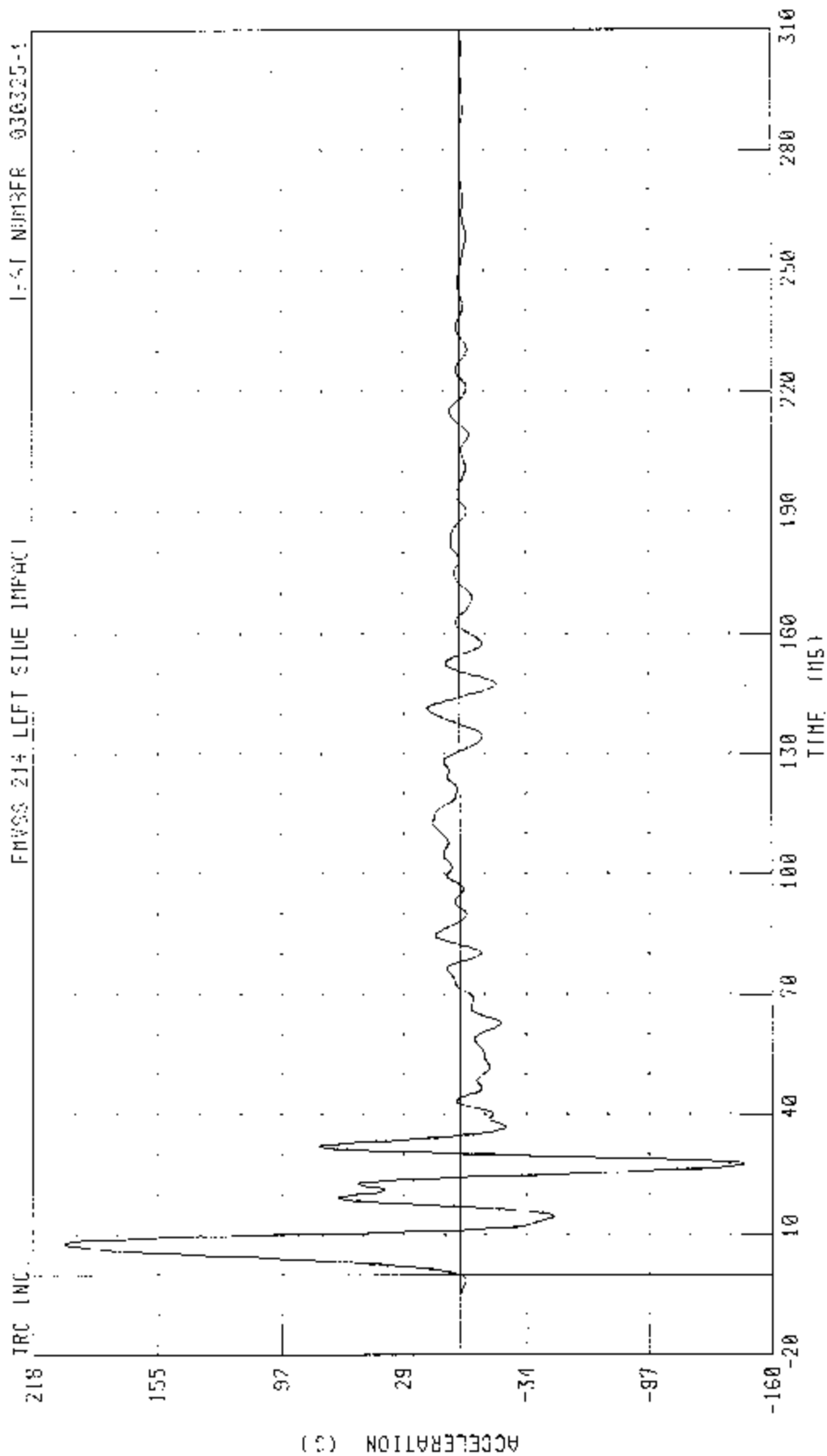
CHANNEL: LRSYDI FILTER: CH. CLASS 180

PEAK DATA: 150 92 MM @ 310.00 MS, -0.03 MM @ 2 40 13

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFLECTABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT FRONT DOOR IN CENTERLINE Y-AXIS ACCELERATION

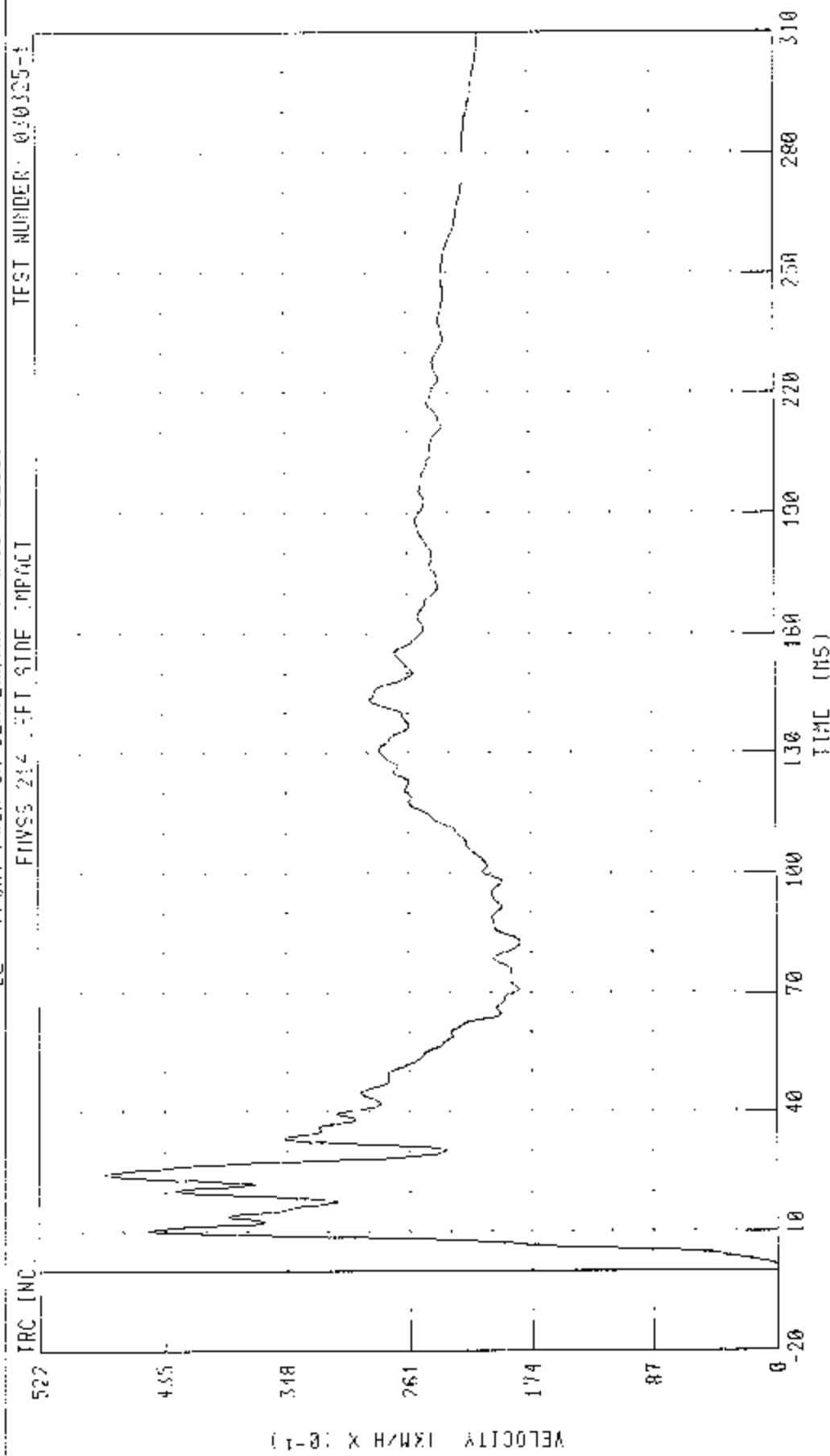
FMVSS 214 LEFT SIDE IMPACT TEST NUMBER 030325-1



CHANNEL: LFCVG: FILTER: CIL CLASS: C0

PEAK DATA 202.71 G @ 7.02 MS 145.71 G @ 27.52 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DETOURABLE BARRIER) INTO LEFT SIDE OF 2000S FUNDA ACCORD
 LE+ FROM) DOOR ON CENTERLINE Y-AXIS VELOCITY



TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

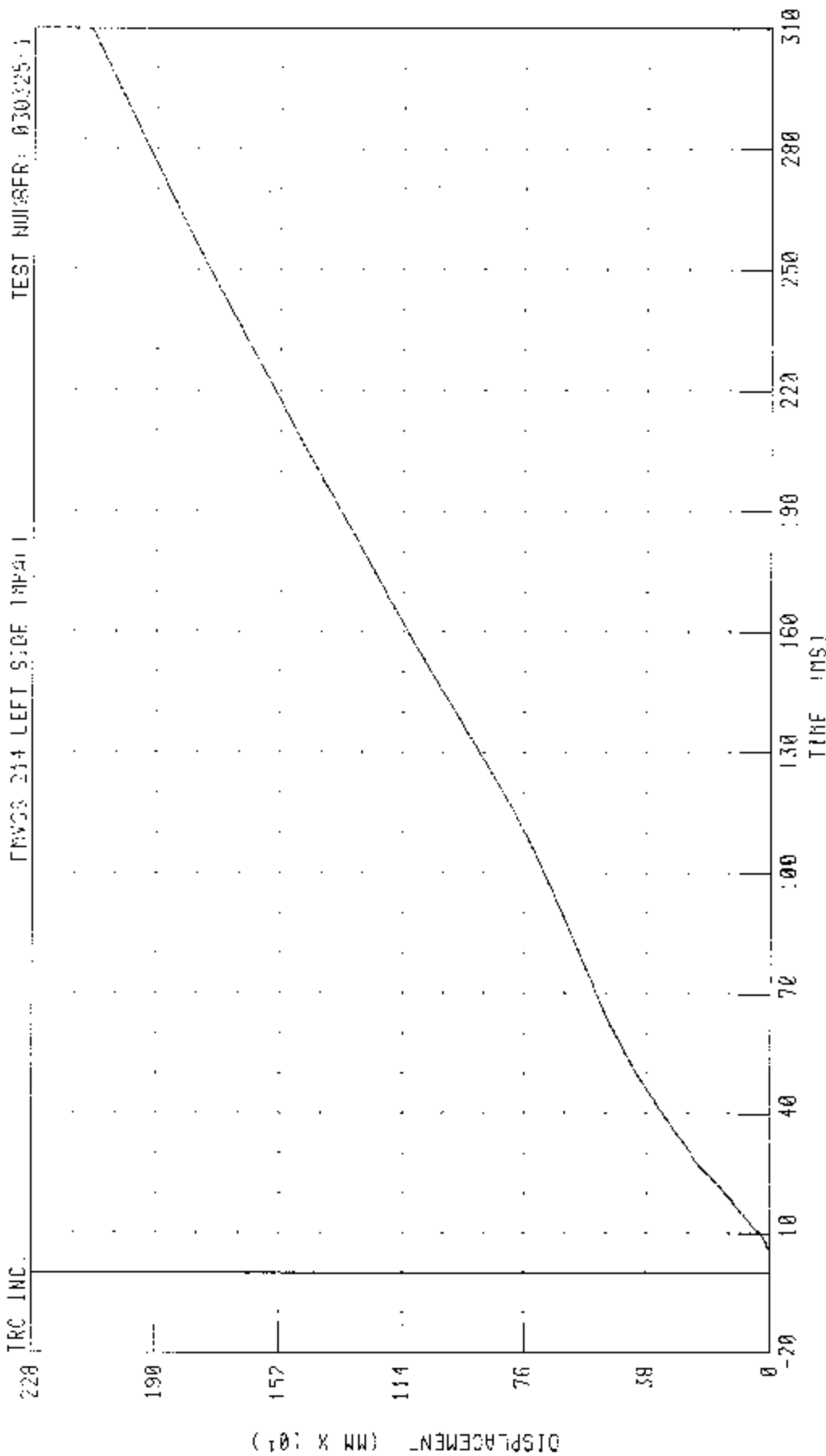
PEAK DATA: 47 30 KPH X 10-1 @ 24 72 MS; -0 07 KPH X 10-1 @ 0 88 MS

CHANNEL LFCYV1 FILTER CH CLASS 180

VELOCITY (KPH X 10-1)

55/28 KHZ 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BAR) INTO LEFT SLIP OF 2003 HONDA ACCORD

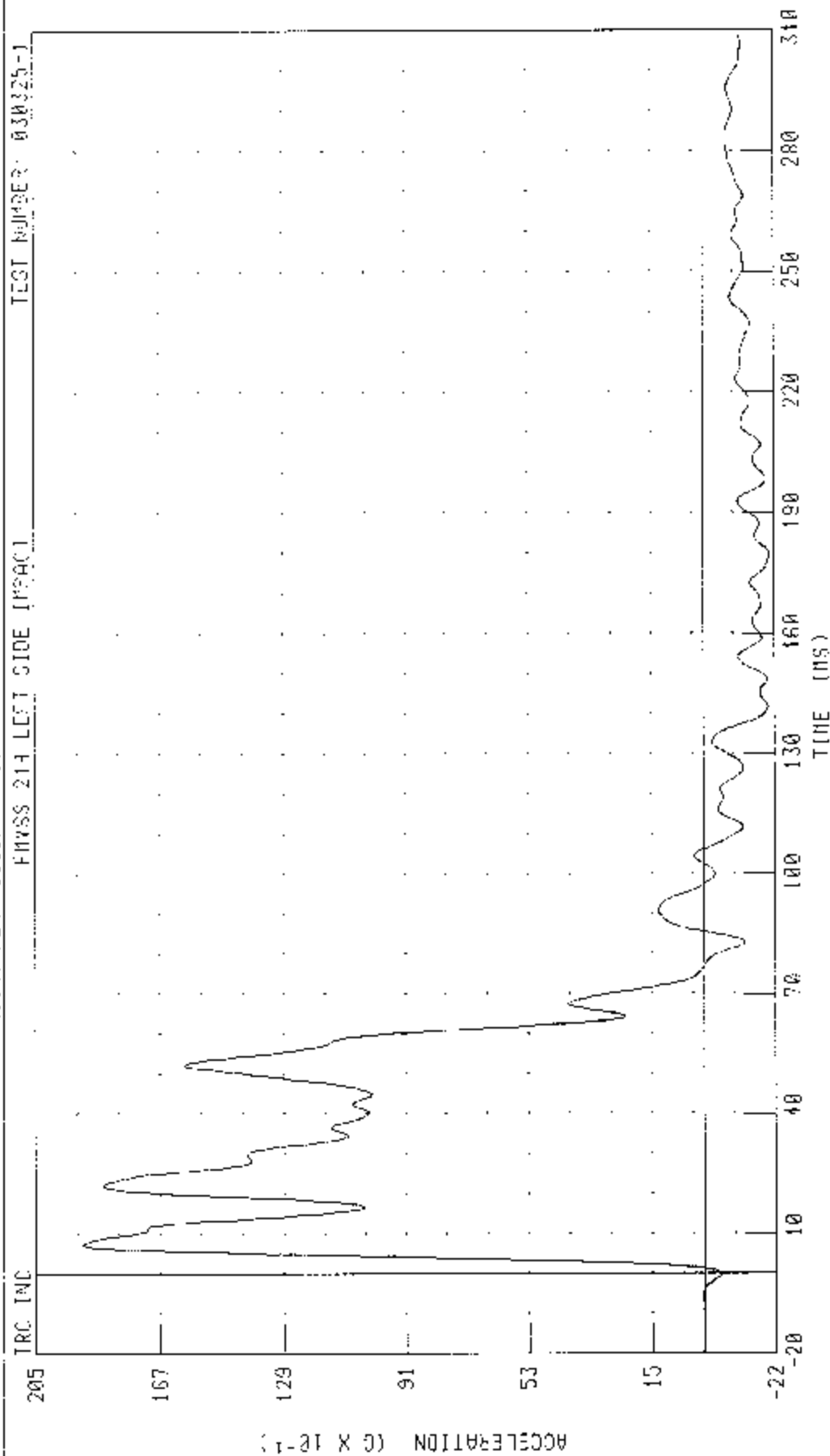
LEFT FRONT DOOR ON CENTERLINE Y-AXIS DISPLACEMENT



CHANNEL LFCVD1 FILTER: CUI CLASS 130

PEAK DATA: 2103 54 CH B 310 00 KS: 0 00 MM @ 1 20 MS

55.28 MPH SW OFF-REAR SIDE IMPACT INVOLVING DEFENDABLE ROBERT + INTO LE-1 SIDE OF 2003 HONDA ACCORD
RIGHT REAR OCCUPANT COMPARTMENT Y AXIS ACCELERATION

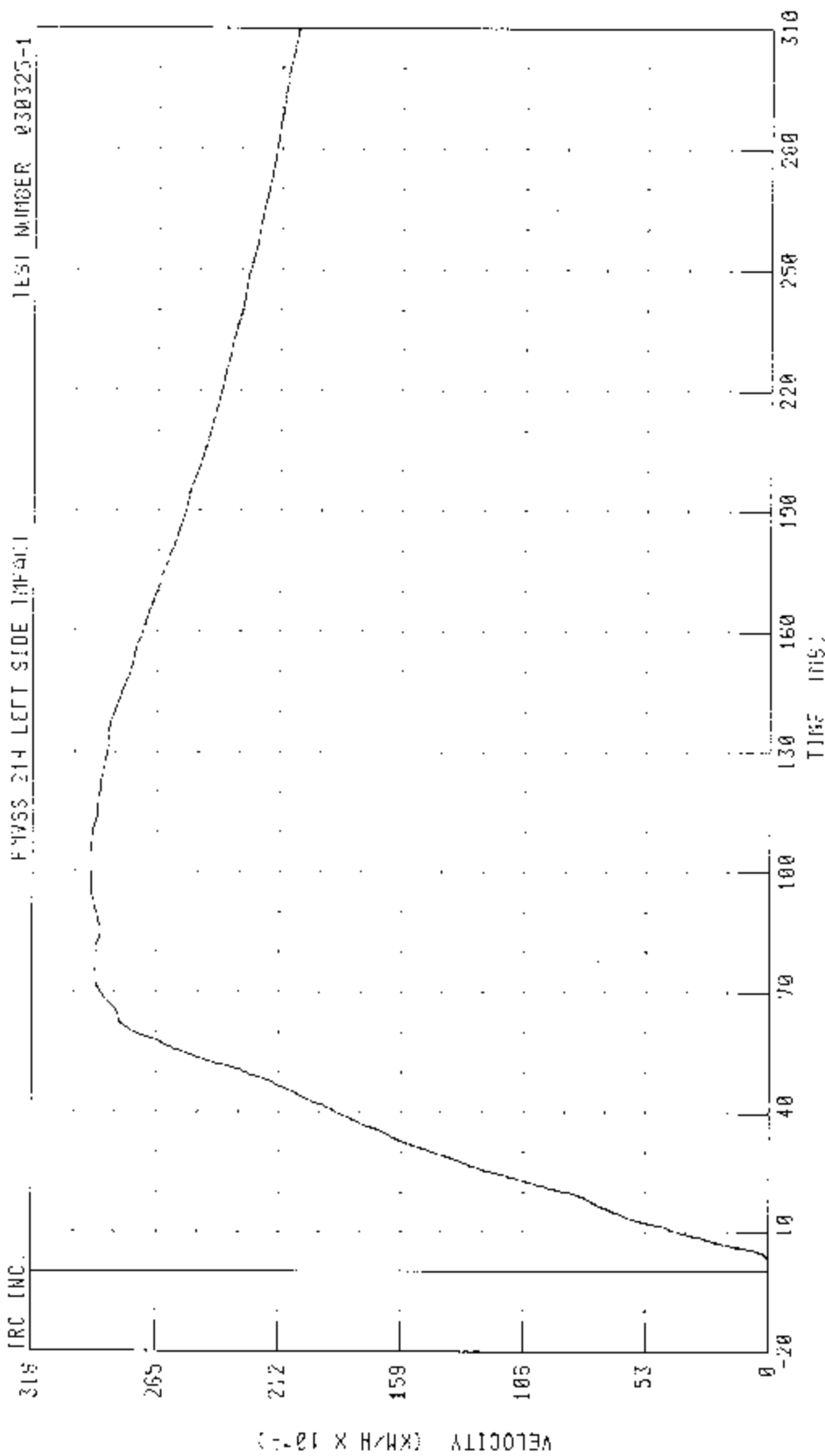


CHANNEL: R31Y01 FILTER: CUI, CLASS 50

PEAK DATA 19 18 3 0 7 36 MS: -2 06 0 0 179.68 FS

55/38 KPH SA DEFLECT SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HONDA ACCORD

RIGHT REAR OCCUPANT COMPARTMENT I-AXIS VELOCITY

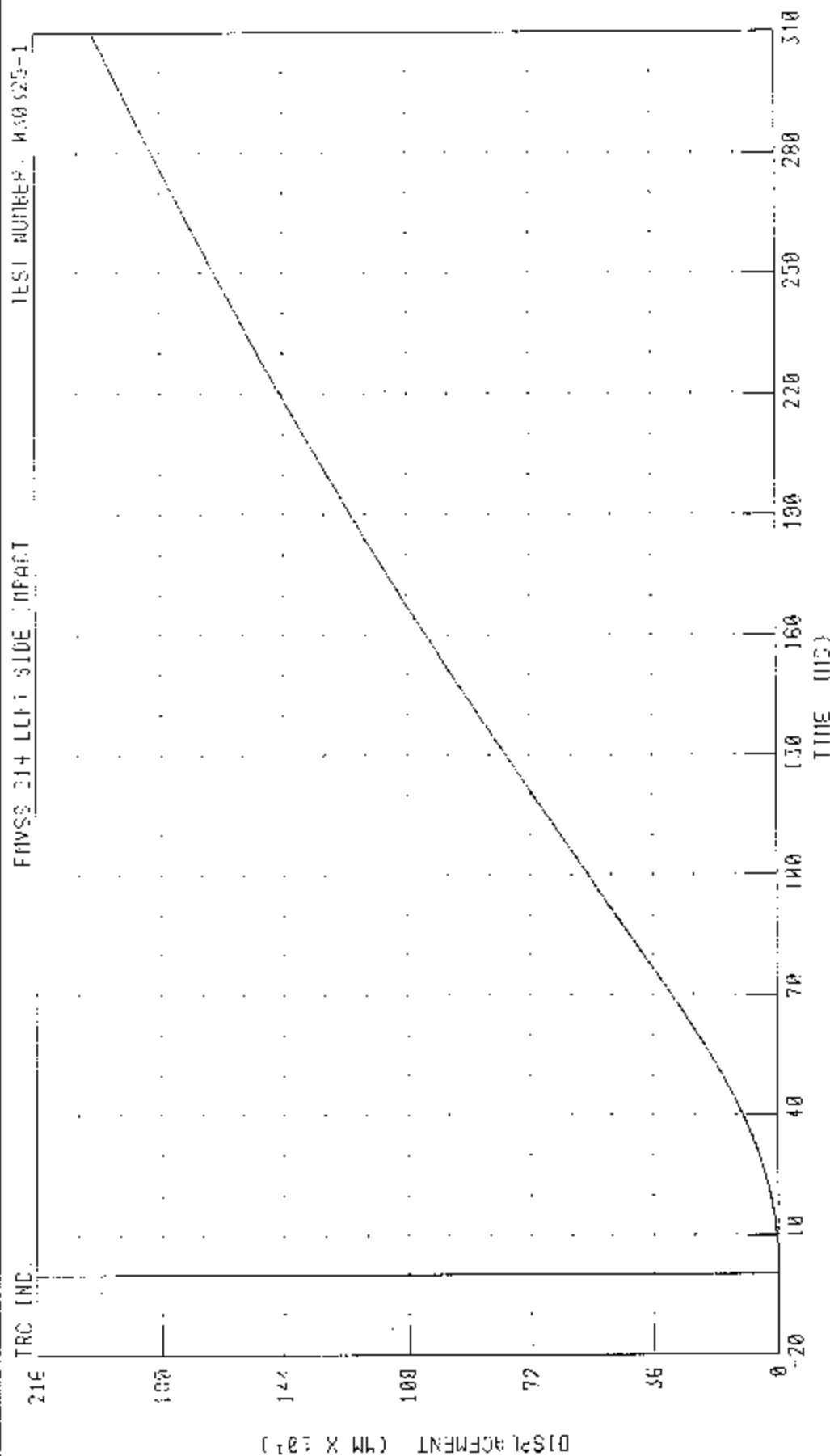


TIME (MS)

PEAK DATA 29 30 KPH @ 98 56 MS; 0.00 KPH @ 7 74 MS

CHANNEL: RRTYV1 FILTER: CII CLASS 180

55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARREL) INTO LEFT SIDE OF 2003 FORDA ACCORD
 RIGHT REAR COLLAPSE COMPARTMENT Y AXIS DISPLACEMENT



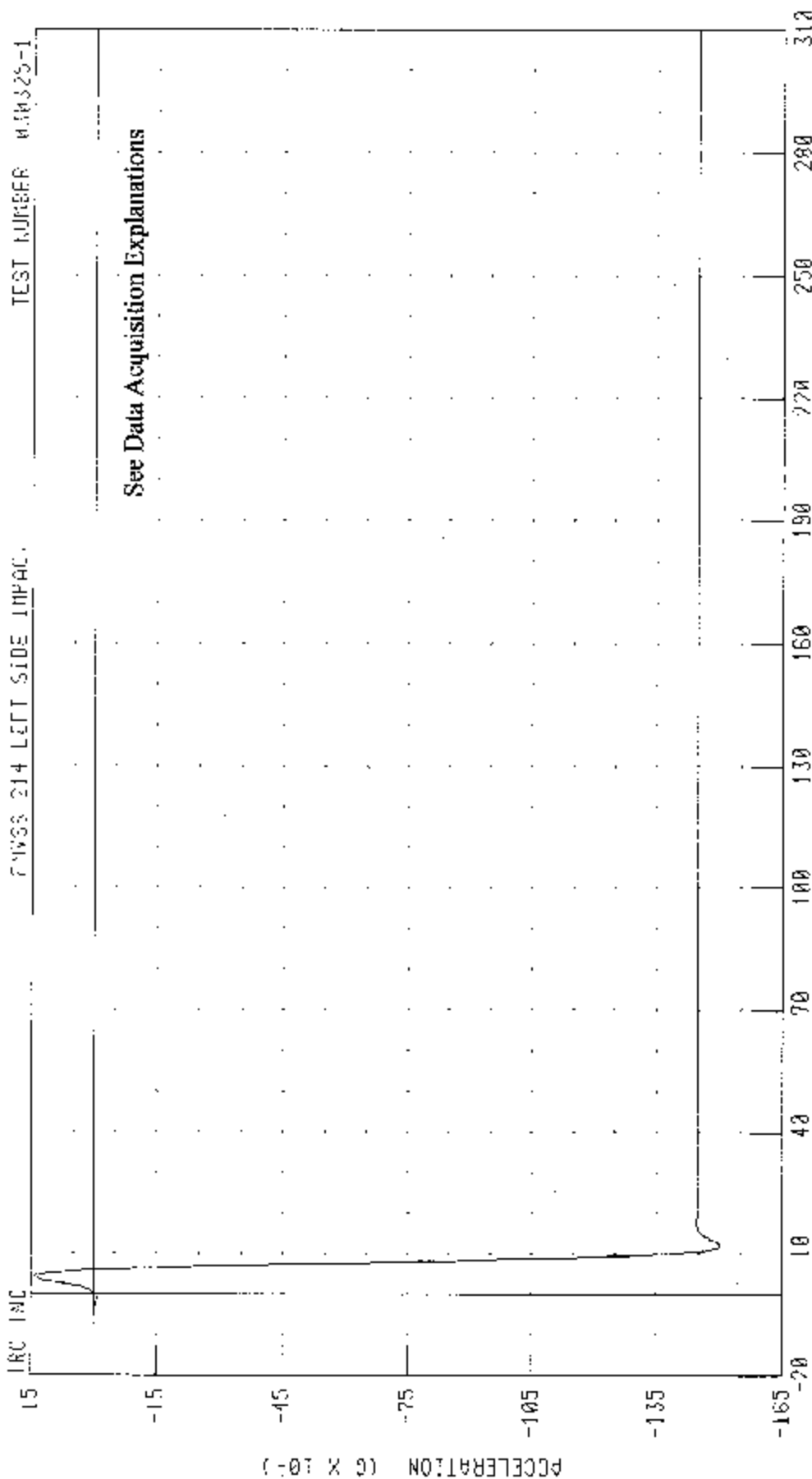
CHANNEL: RRTY01 FILTER CH. CLASS 180 PEAK DATA 1996 87 MM @ 310.00 MS, 0 00 MM @ 2 64 MS

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARriers) INTO LEFT SIDE OF 0033 HONDA ACCORD

LEFT FRONT DOOR MID REAR Y-AXIS ACCELERATION

TEST NUMBER 000325-1

CHASS 214 LEFT SIDE IMPACT



CHANNEL LFMYG1 FILTER CH CLASS 60

TIME (MS)

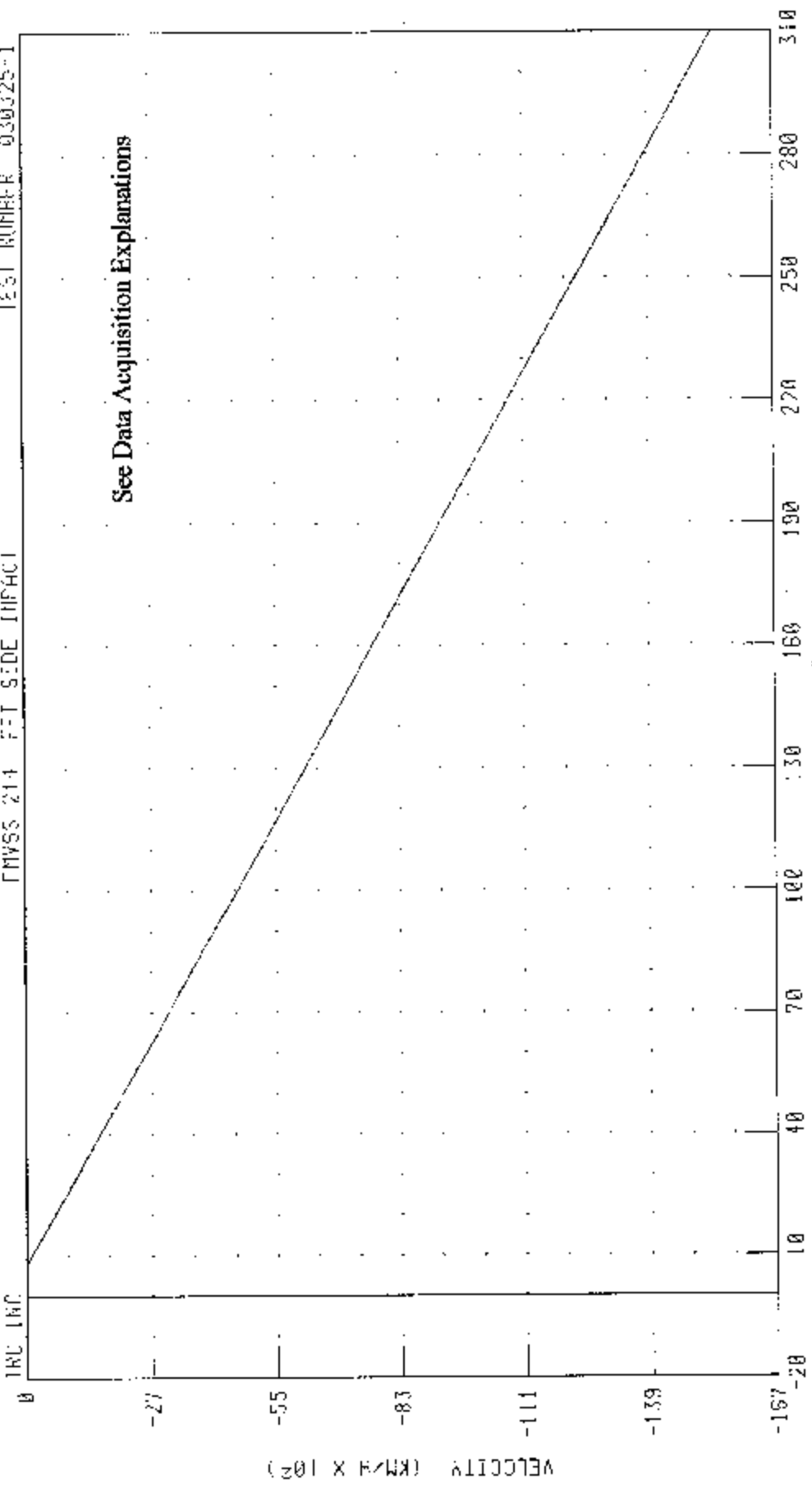
PEAK DATA: 14: 97 G @ 4.24 MS, 1501.57 G @ 12.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT FRONT BODY REAR A-AXIS VELOCITY

IMPACT 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



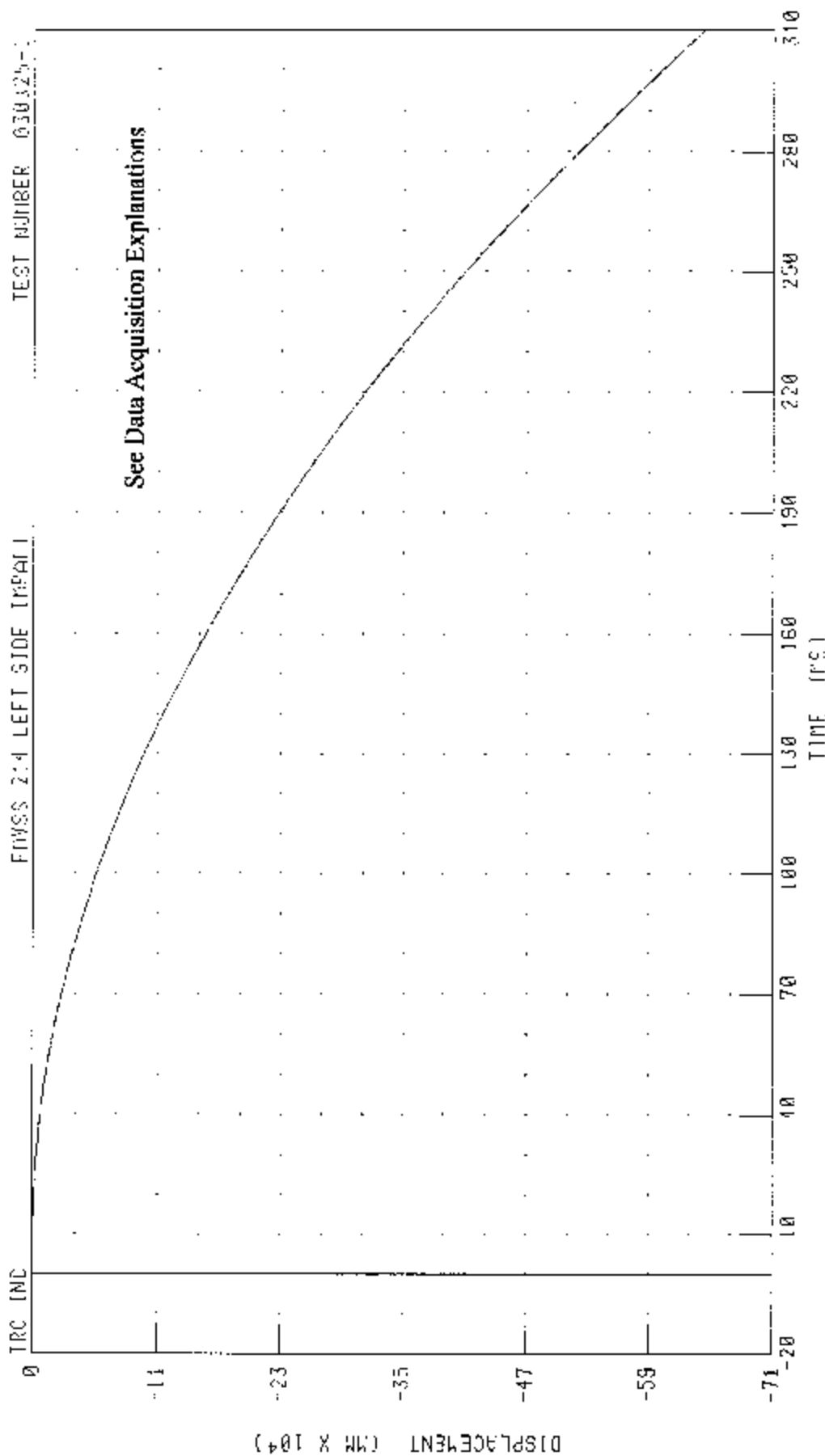
See Data Acquisition Explanations

TIME 1'S:

PEAK DATA 19 16 KPH @ 7 20 MS; -15424.45 KPH @ 310 00 MS

CHANNEL 1FMYV1 FILTER: FH CLASS 160

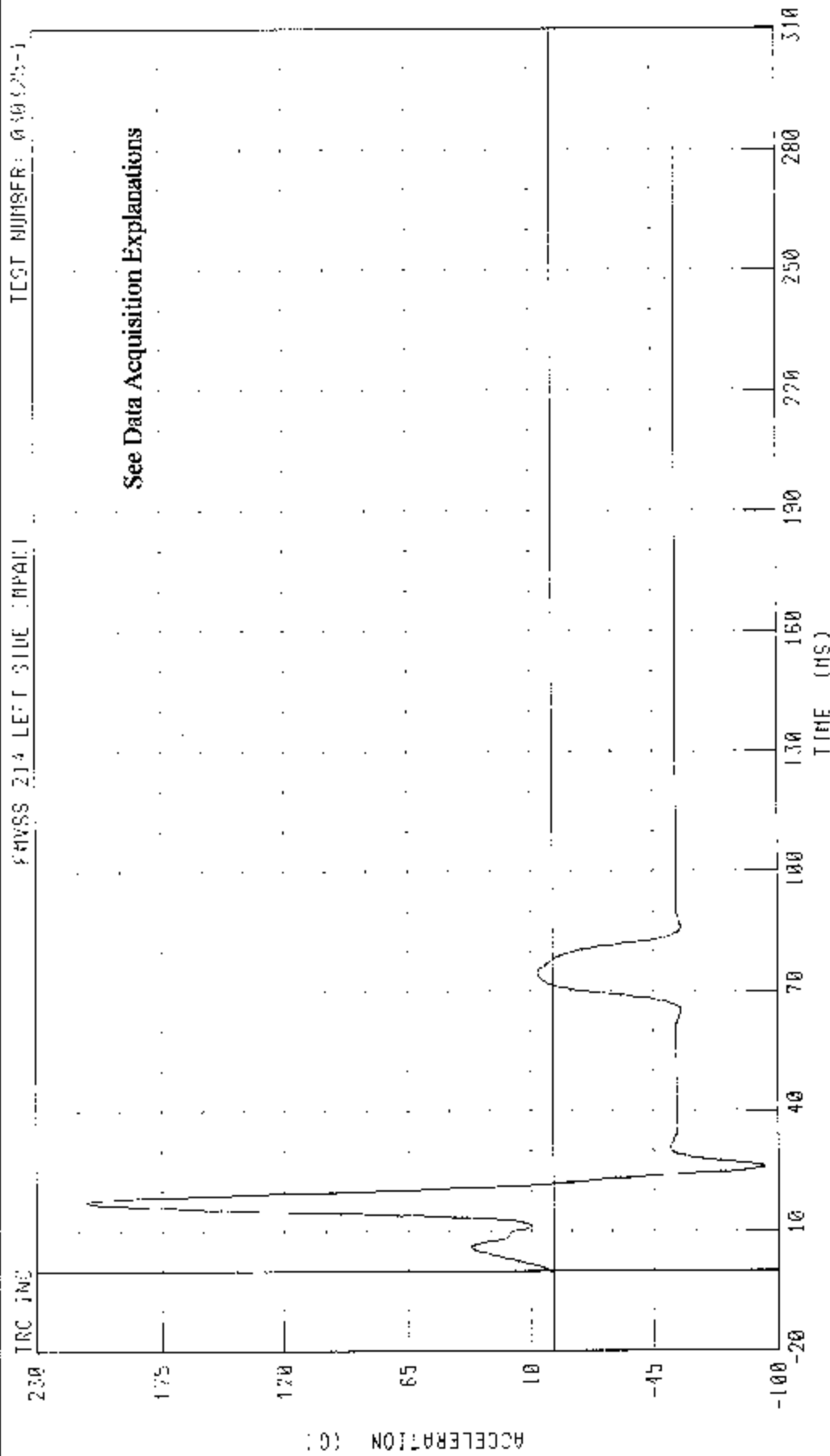
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
LEFT FROM 200R HIC-REAR Y-AXIS DISPLACEMENT



CHANNEL: LFHYD1 FILTER: CH. CLASS 180

PEAK DATA: 11.94 MM @ 8.16 MS, -646585.50 @ 310.00 MS

55/23 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
LEFT FRONT DOOR UPPER CENTERLINE Y AXIS ACCELERATION



CHANNEL: LFUYG1 FILTER: CH CLASS 60

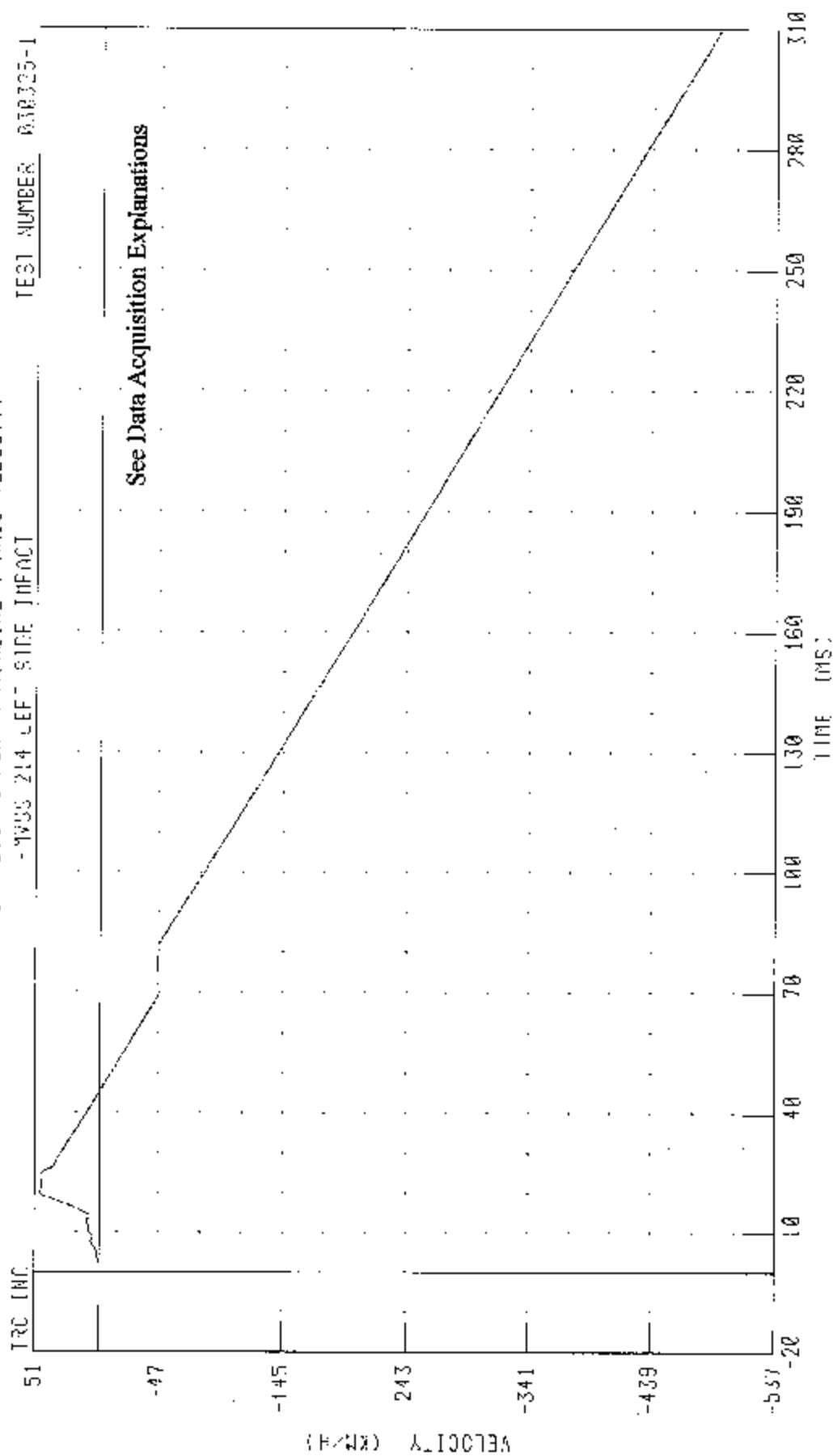
PEAK DATA: 208 72 5 0 17.44 MS, -94 19 0 0 26 16 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT FRONT DOOR UPPER CENTERLINE Y-AXIS VELOCITY

-YVS 214 LEFT SIDE IMPACT

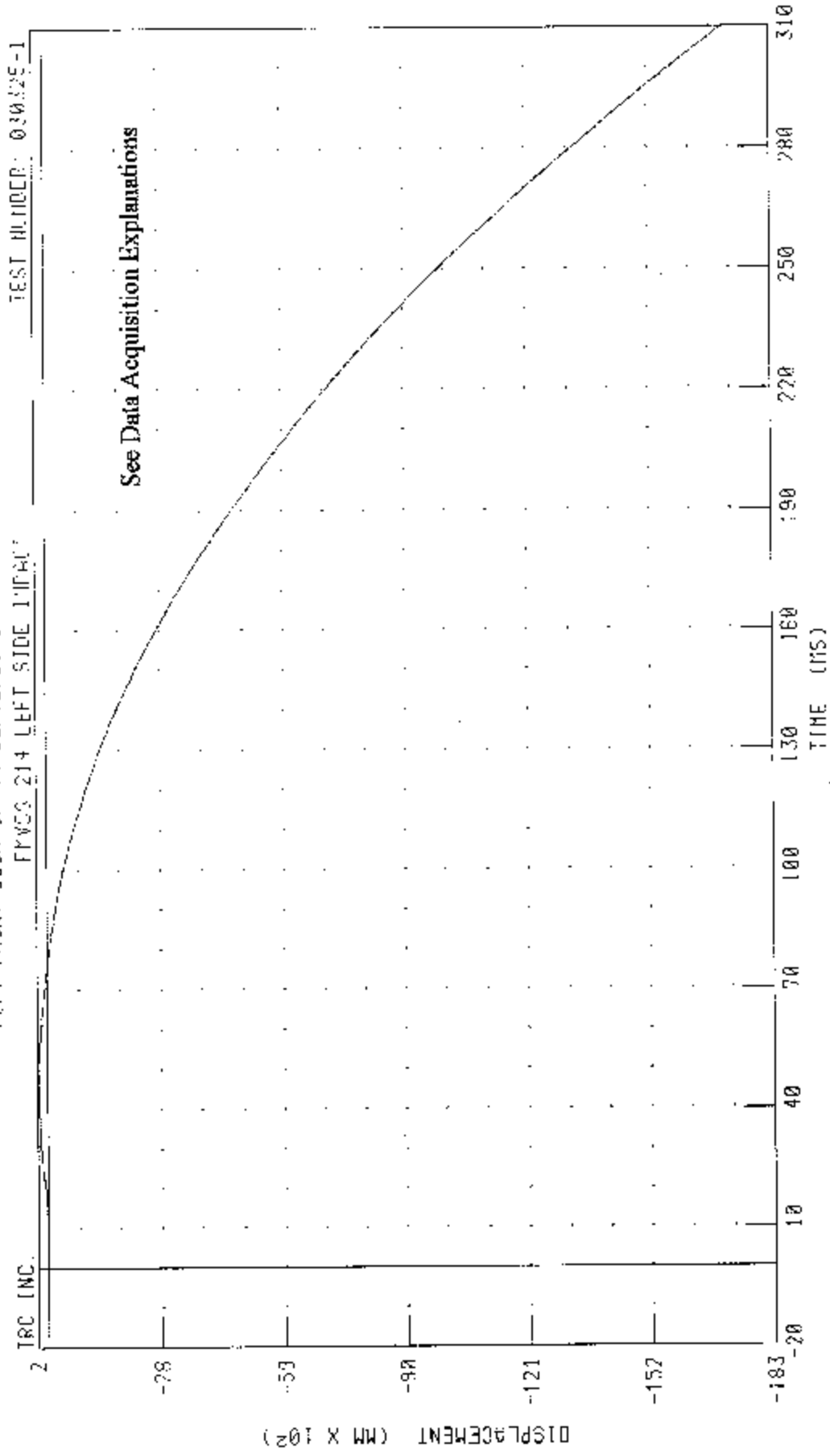
TEST NUMBER 030325-1



CHANNEL LFUYV1 FILTER CH. CLASS 180

PEAK DATA 46.78 KPH @ 20.16 MS, -492.74 KPH @ 310.00 MS

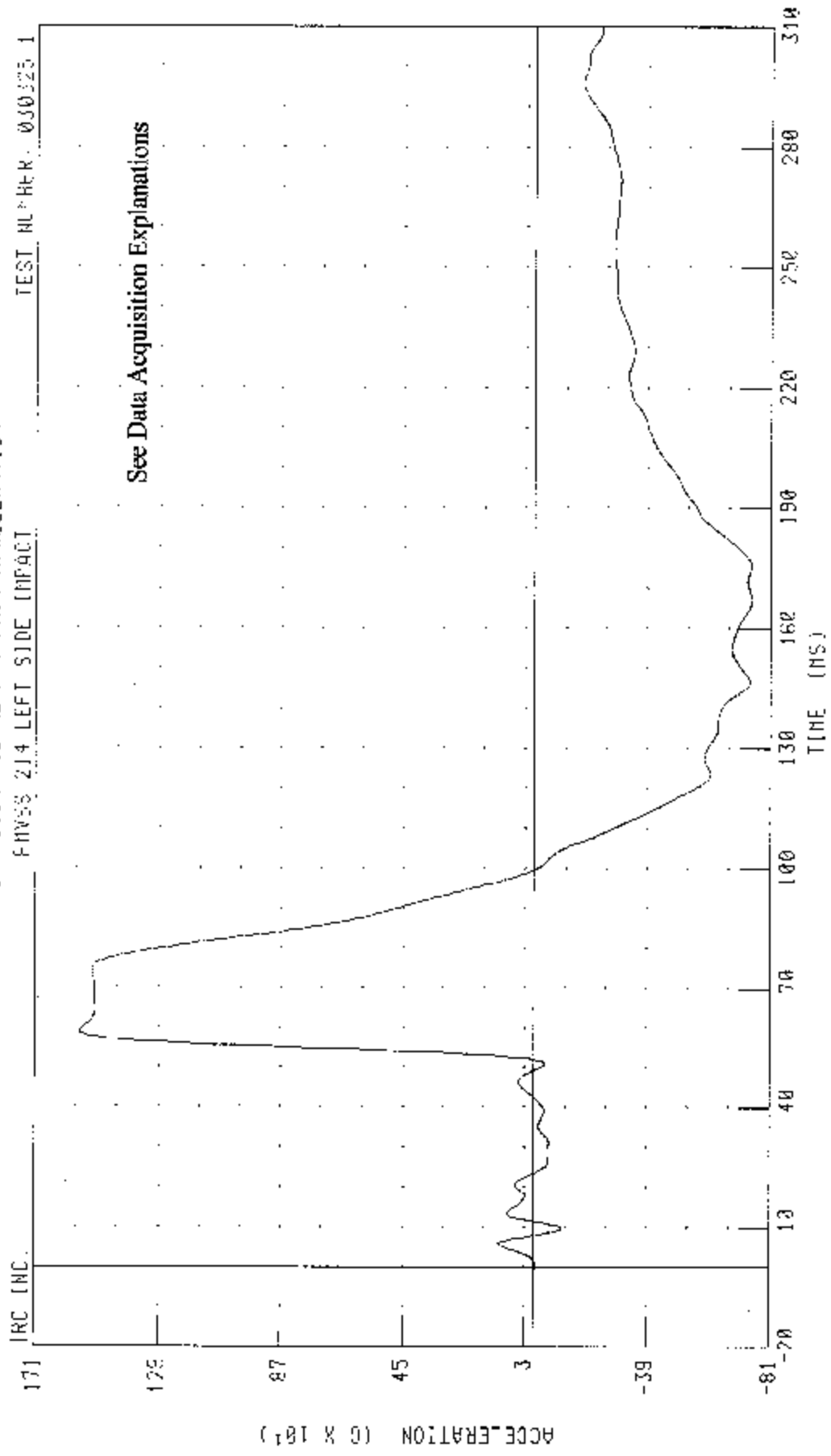
55/28 K24 00 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT FRONT 300R UPPER ECHTLERLINE Y-AXIS DISPLACEMENT



PEAK DATA: 239.54 MM @ 45.46 MS, -1717.57 MM @ 310.00 MS

CHANNEL: LFUY01 FILTER: GIL, CROSS 180

55/28 KPII 50 DEFORMABLE BARRIER) INTO LEFT SIDE OF 1983 HONDA ACCORD
 LEFT REAR DOOR AND REAR Y AXIS ACCELERATION



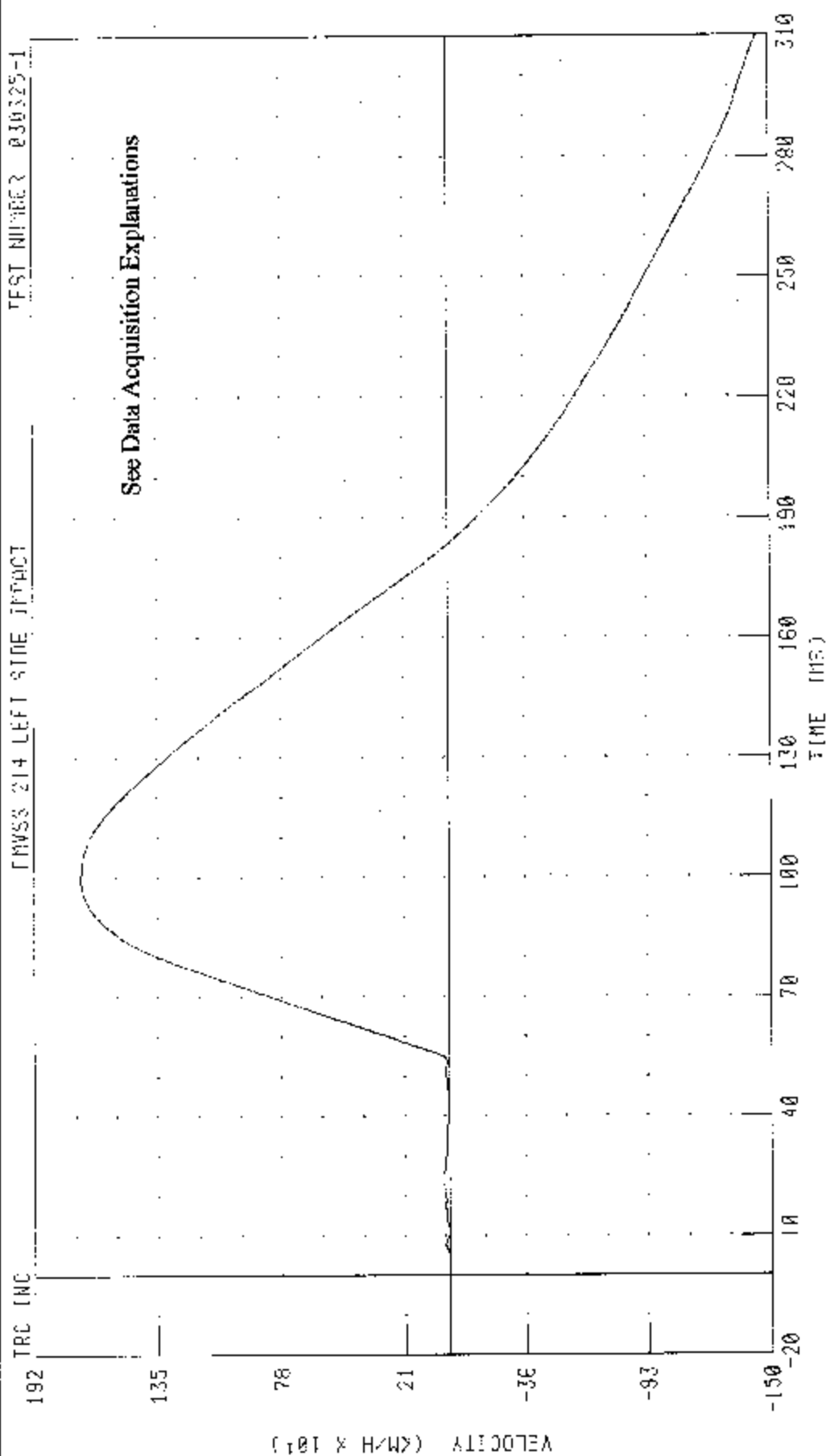
See Data Acquisition Explanations

TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

CHANNEL LRMVCI FILTER: CH CLASS C0
 PEAK DATA 1558 57 0 0 59 12 MS, -744.95 G @ 167 36 MS

55.20 KPH 00 DEGREE SIDE IMPACT (MOVING DELIBERATE BARRIER) INTO LEFT SIDE OF P003 HONDA ACCORD
LEFT REAR DOOR MID-REAR Z AXIS VELOCITY



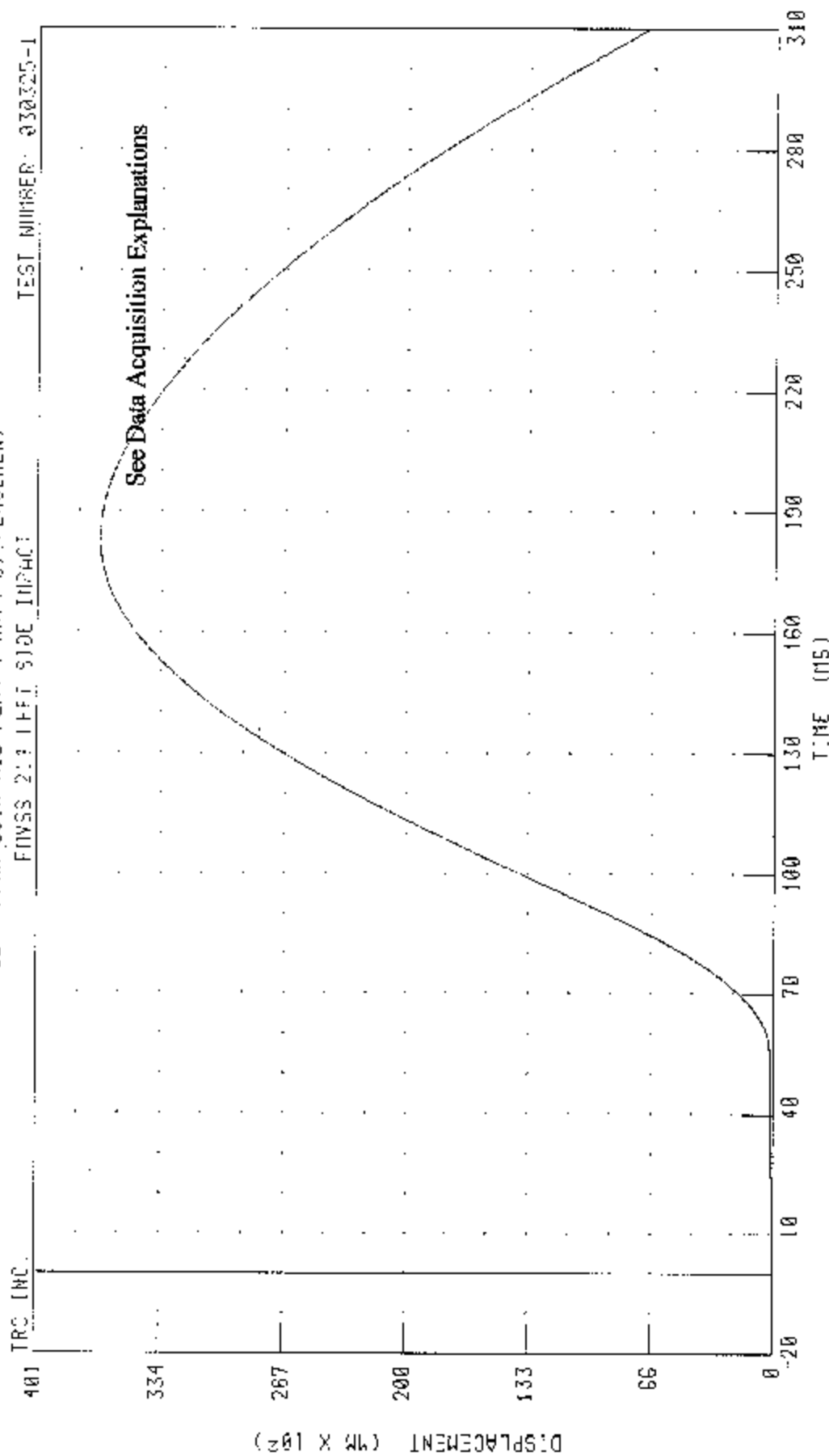
CHANNEL - LRMYV1 FILTER CH CLASS 180 PFAK DATA 1707 50 KPH @ 99 60 MS; 1446.04 KPH @ 310.00 MS

55.78 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BAR) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT PEAK FOUR MID-REAR Y AXIS DISPLACEMENT

FINVSS 2:1 LEFT SIDE IMPACT

TEST NUMBER: 030325-1

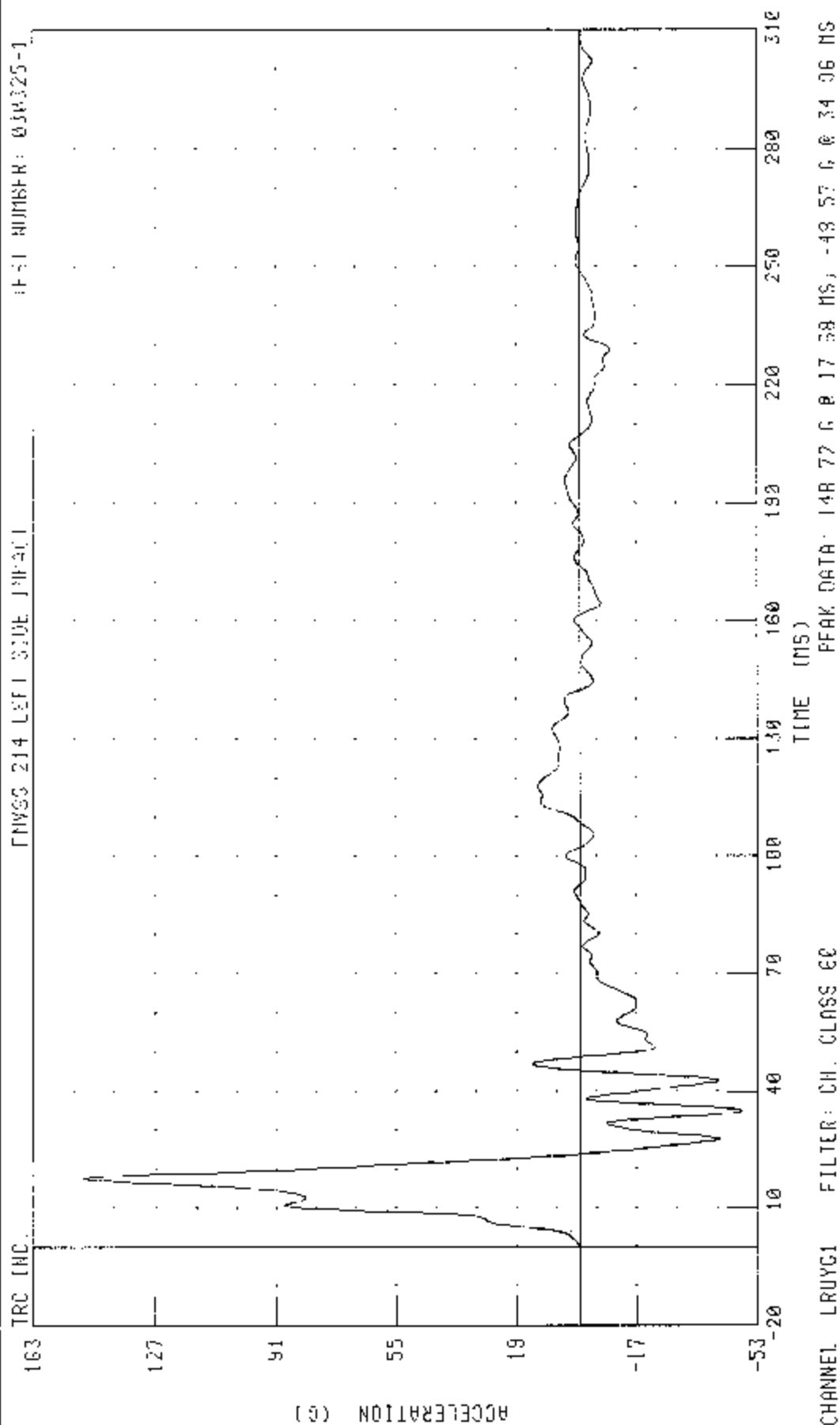


CHANNEL: LRMV01 FILTER: CIL CLASS 180

PEAK DATA 36794.21 MM @ 163.44 MS, 0.55 MM @ 5.28 MS

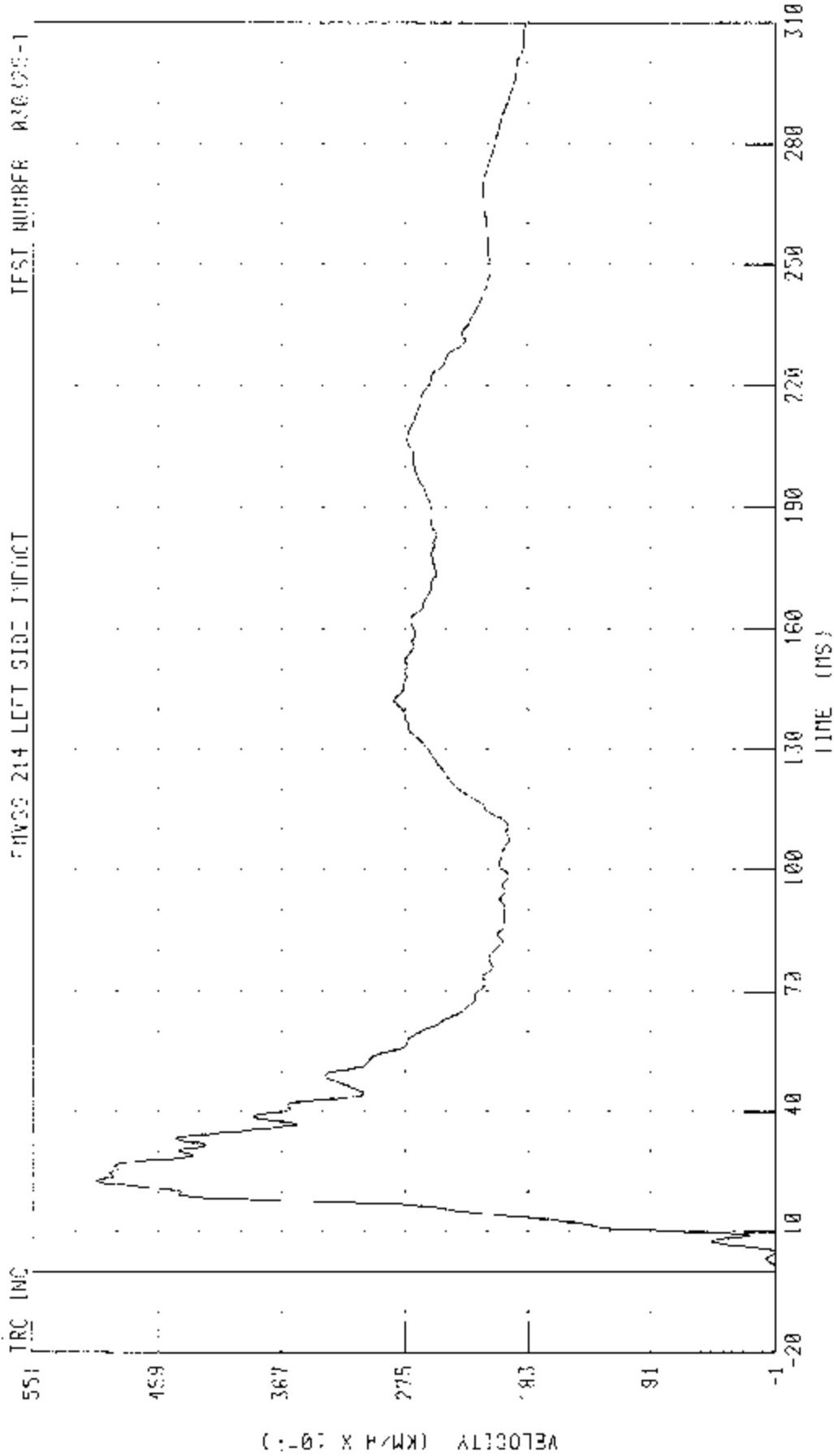
55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF PAUL HORNED ACCURP

LEFT REAR HORN DIFFER CENTERLINE Y AXIS ACCELERATION



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR DOOR UPPER CENTERLINE Y-AXIS VELOCITY



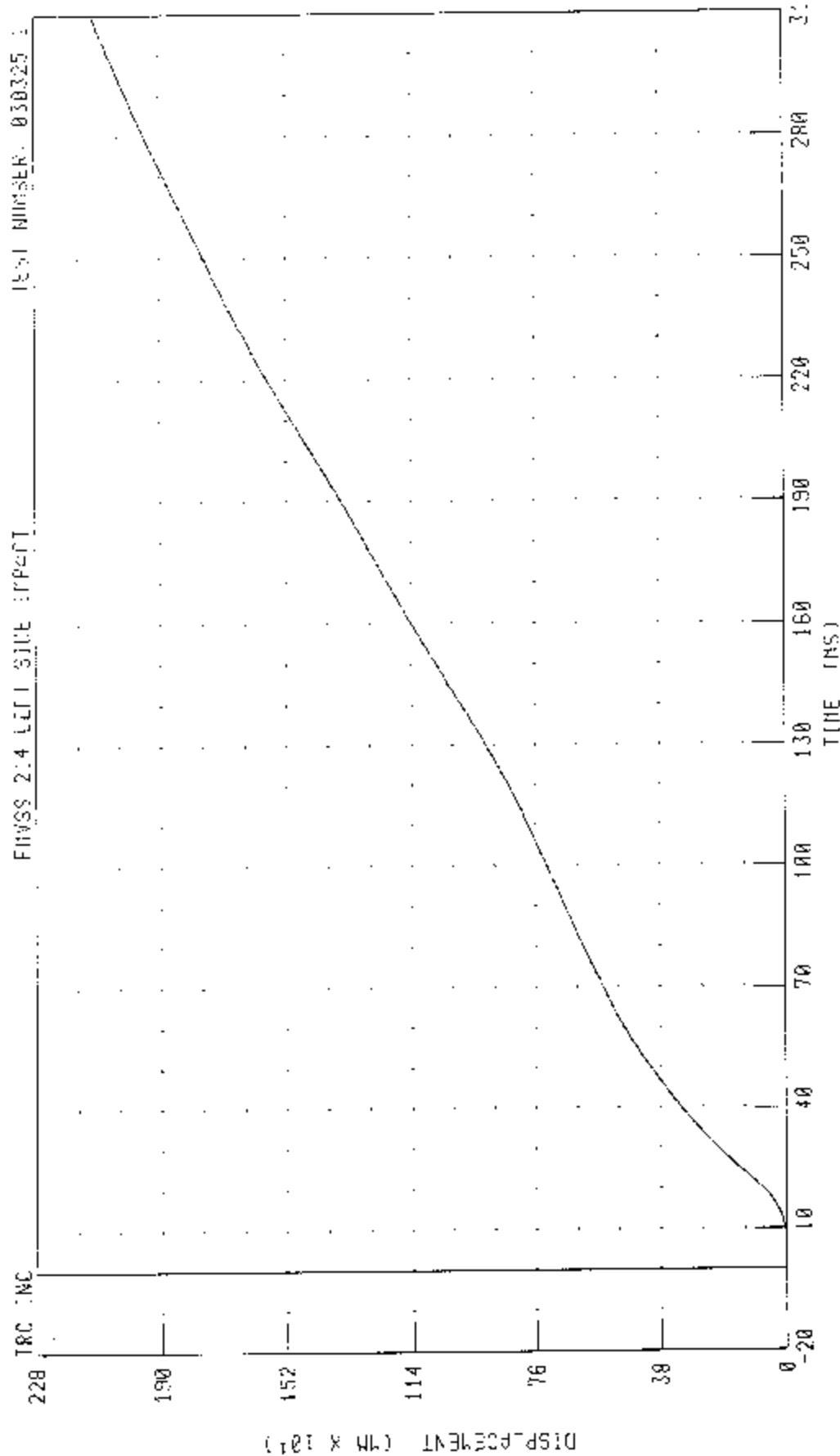
(-10% X P/WK) AL30013A

55/28 MPH 00 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INFO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR DOOR UPPER CENTERLINE Y-AXIS DISPLACEMENT

FRUSS 2.4 LEFT SIDE IMPACT

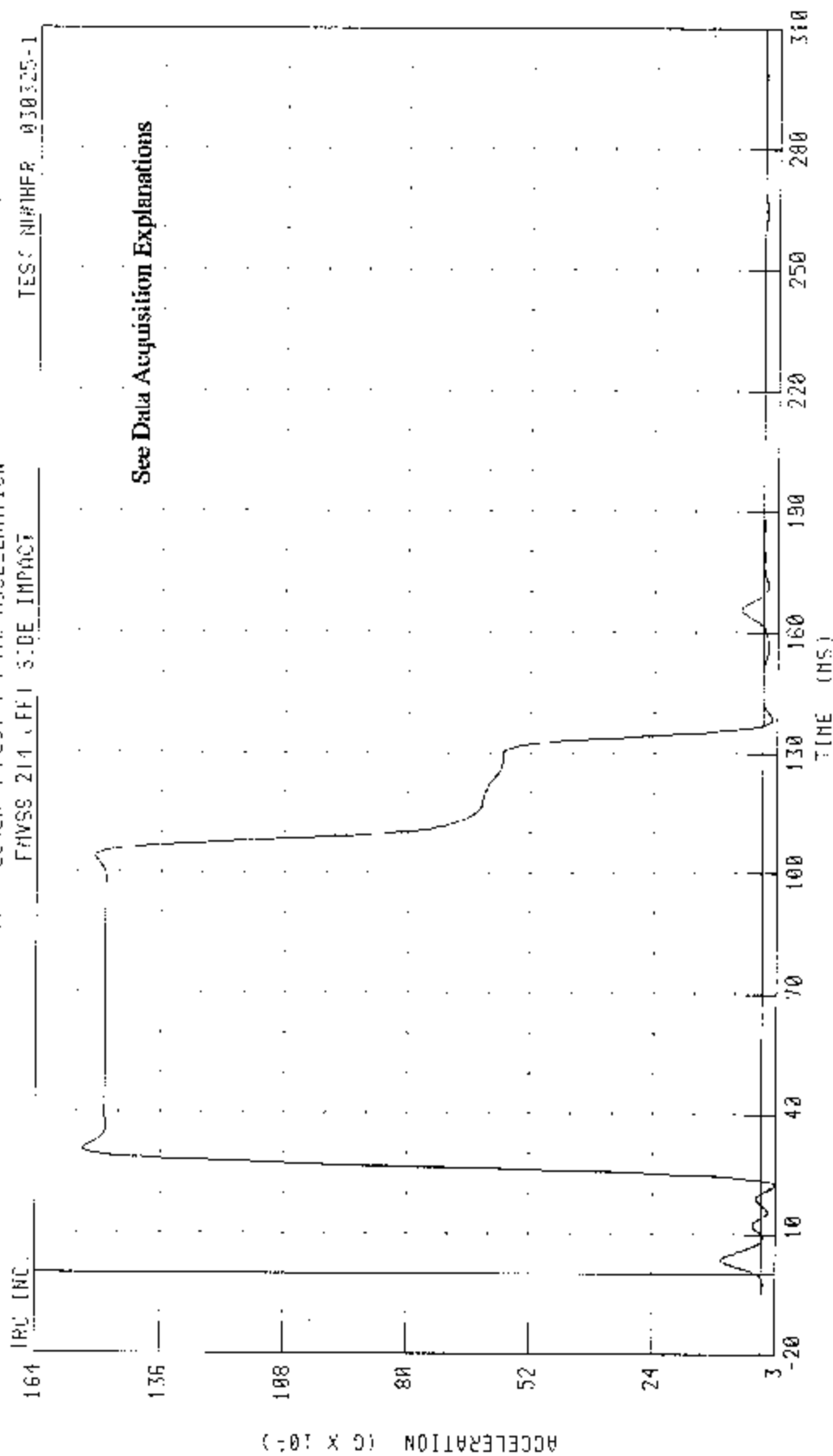
TEST NUMBER: 030325-1



CHANNEL LRU01 FILTER CH CLASS 100

PLAK DATA: 2107 58 MM @ 310 00 MS, @ 30 MM @ 1 52 MS

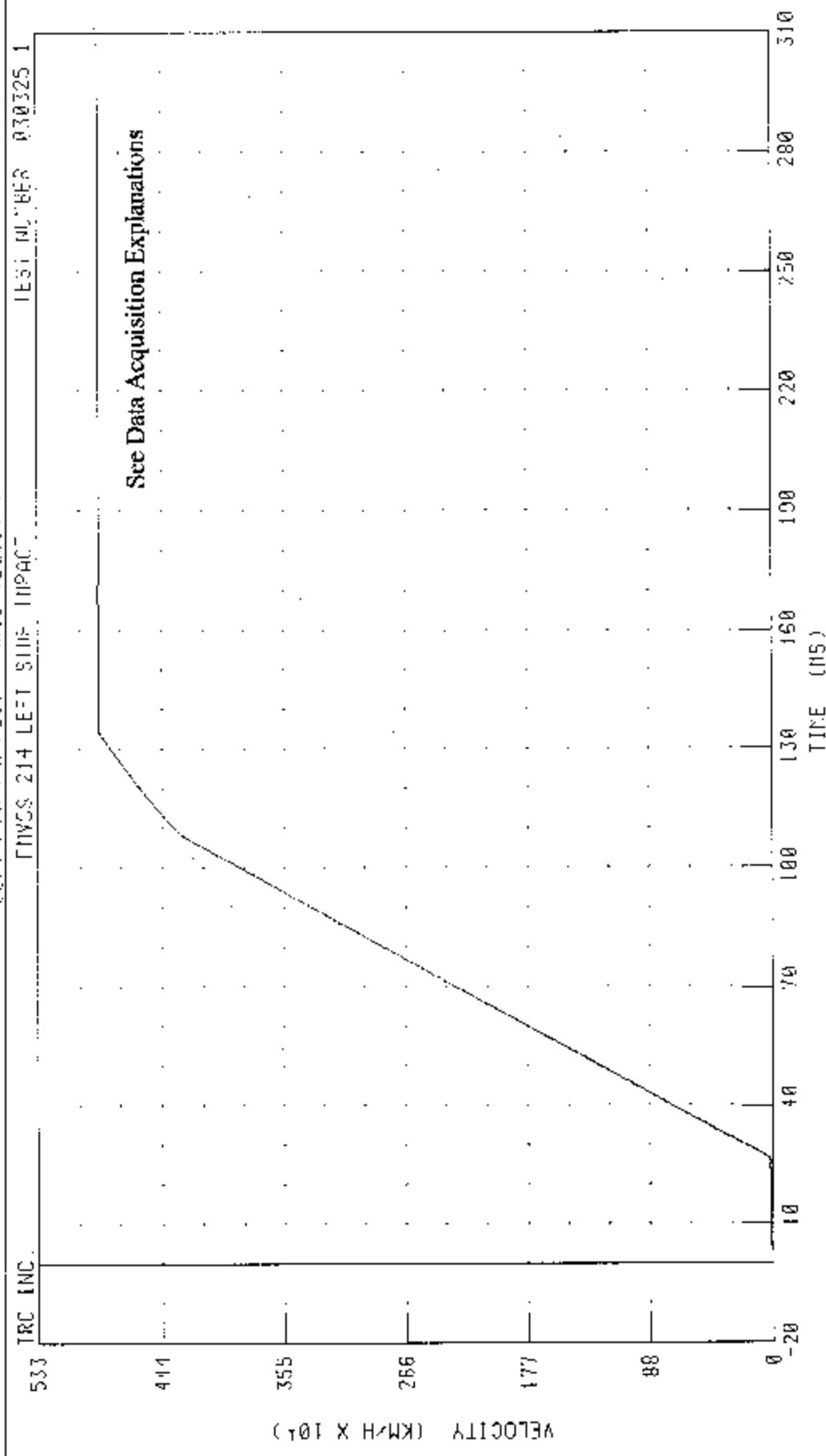
54-28 KPH 30 DEGREE SIDE IMPACT INVOLVING OFFROADABLE BARRIER INTO LEFT SIDE OF 2043 HONDA ACCORD
 IFFI LOWER 0 POST Y-PAIS ACCELERATION



CHANNEL LLAYC1 FILTER: CH. CLASS 60

PIPK DATA: 1539 76 U 0 30 96 MS, -30.50 G @ 22 49 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE SURFER) INTO LEFT SIDE OF 20M: H0409 ACCORD
 LEFT LOWER A POST Y-AXIS VELOCITY



CHANNEL: L1AYV1 FILTER: LH. CLASS: 180
 PEAK ONTO: 4881 78 KM/H @ 157 92 MS; -0.14 KM/H @ 1.36 MS

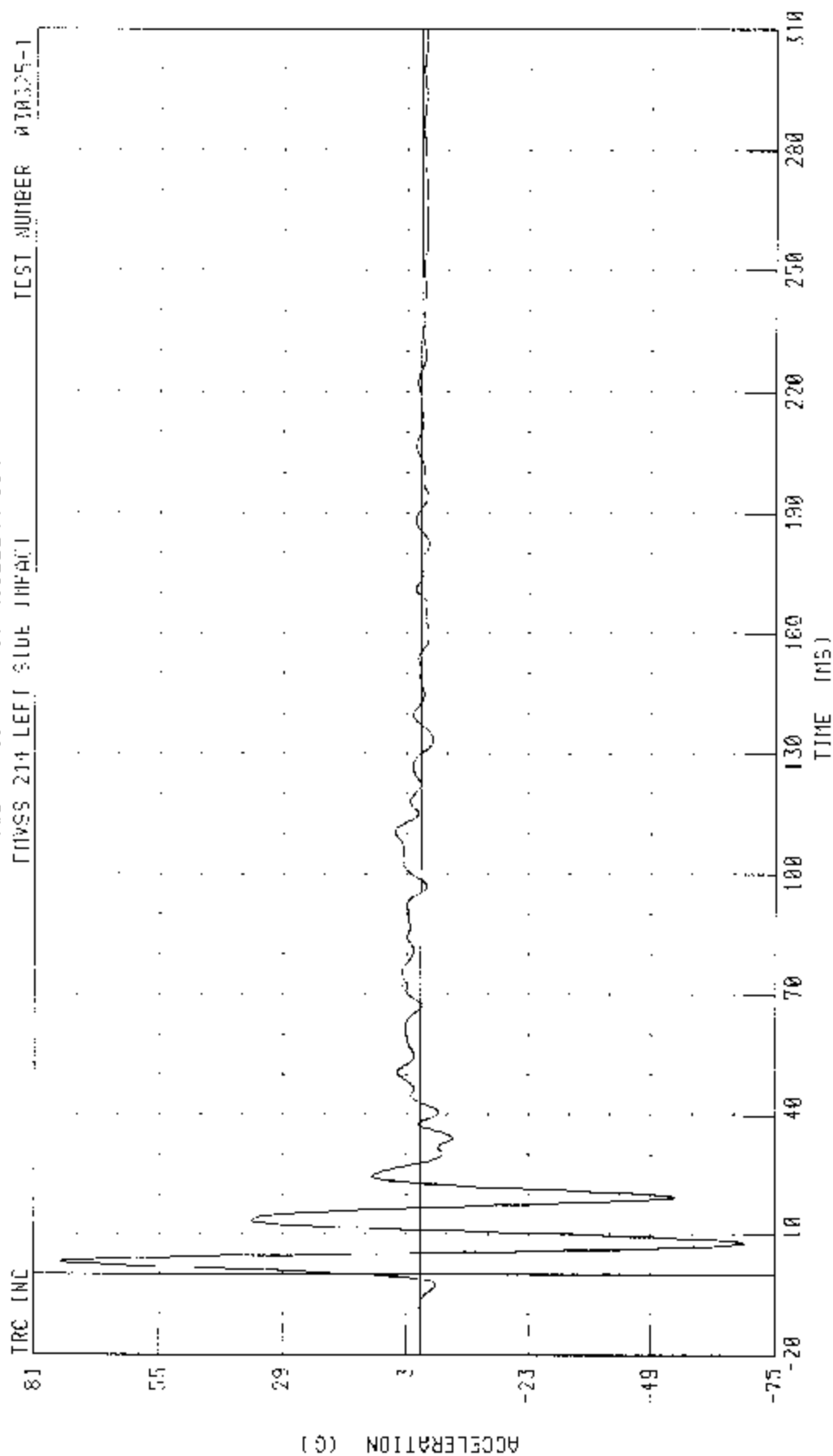
TEST NUMBER: P30325-1

PHYS: 214 LEFT SIDE IMPACT

TRC INC.

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT MIDDLE A-POST Y-AXIS ACCELERATION



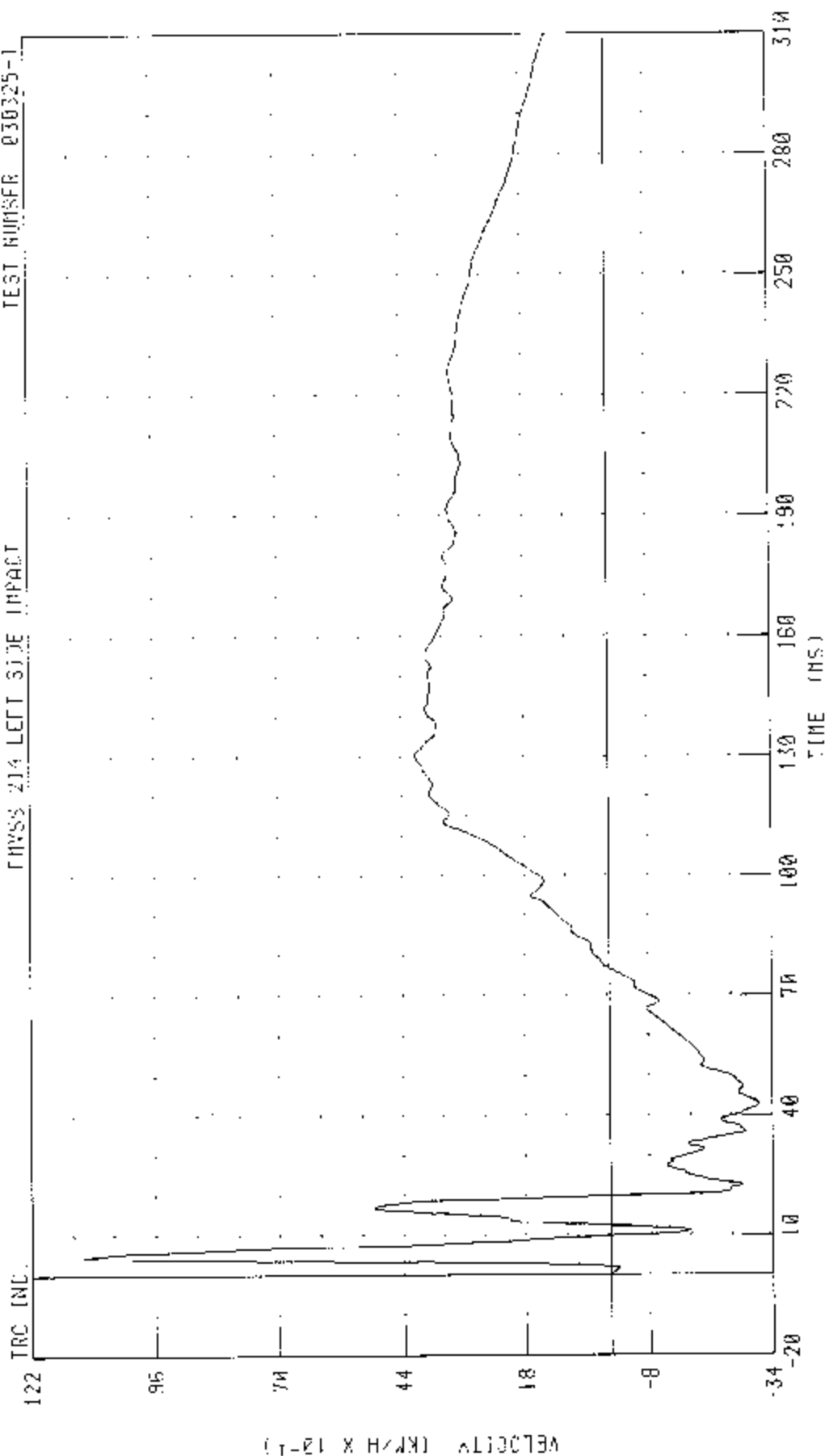
CHANNEL L10Y01 FILTER: CIL CLASS 60 PEAK DATA 75 28 G @ 3 12 MS; -88 40 @ 7 76 MS

55/20 270 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 0007 47H0A RECORD

LEFT TOWARD A POST Y-AXIS VELOCITY

PHYS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



TIME (MS)

CHANNEL 1 MAV1 FILTER CH. CLASS 180

PEAK DATA 11 13 KPH/H @ 4.72 MS, -3.11 KPH/H @ 12.00 MS

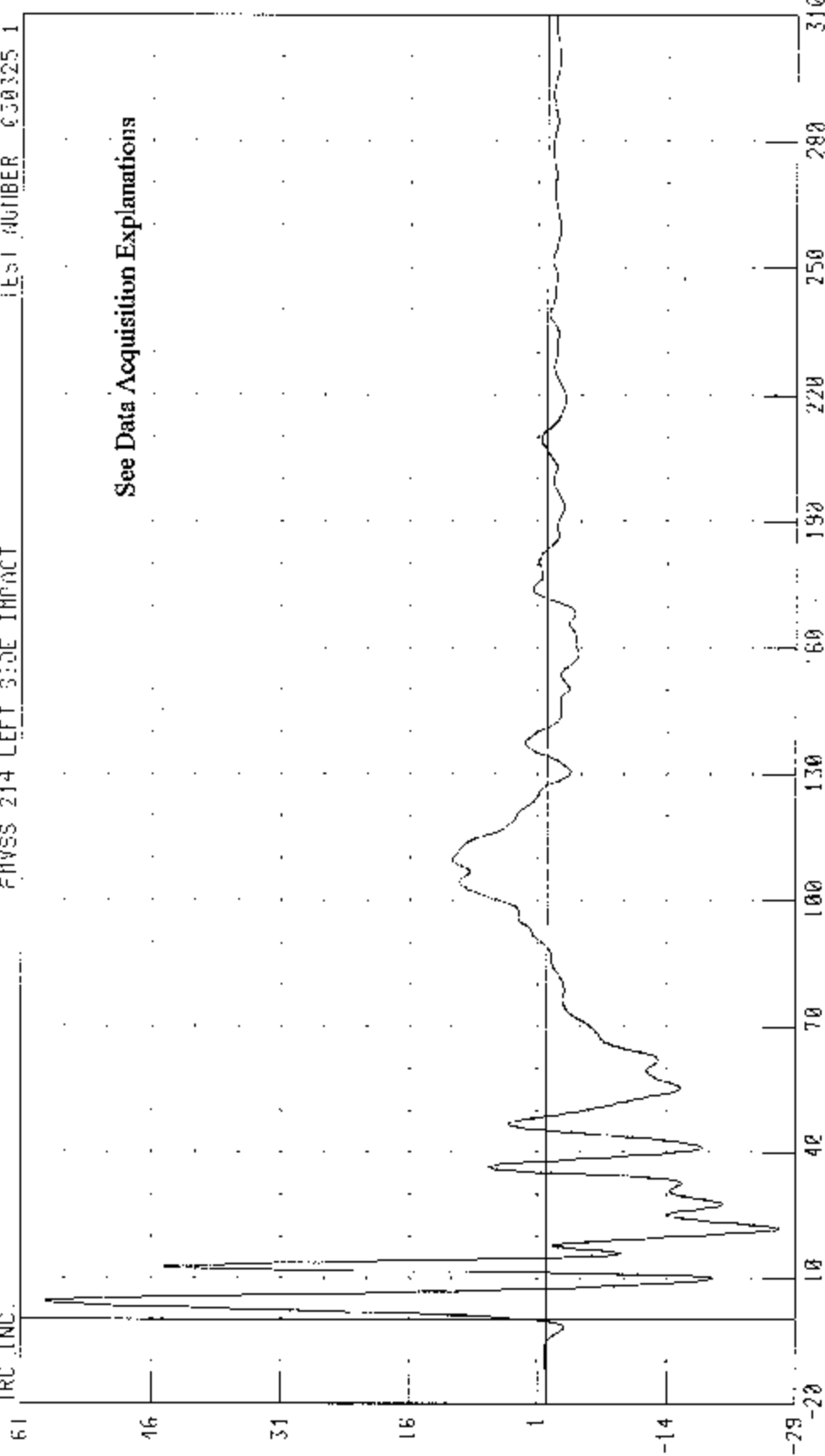
55/23 KP4 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF CAR: HONDA ACCORD

LEFT LOWER B-POST Z-AXIS ACCELERATION

ENVSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325 1

TRC INC.



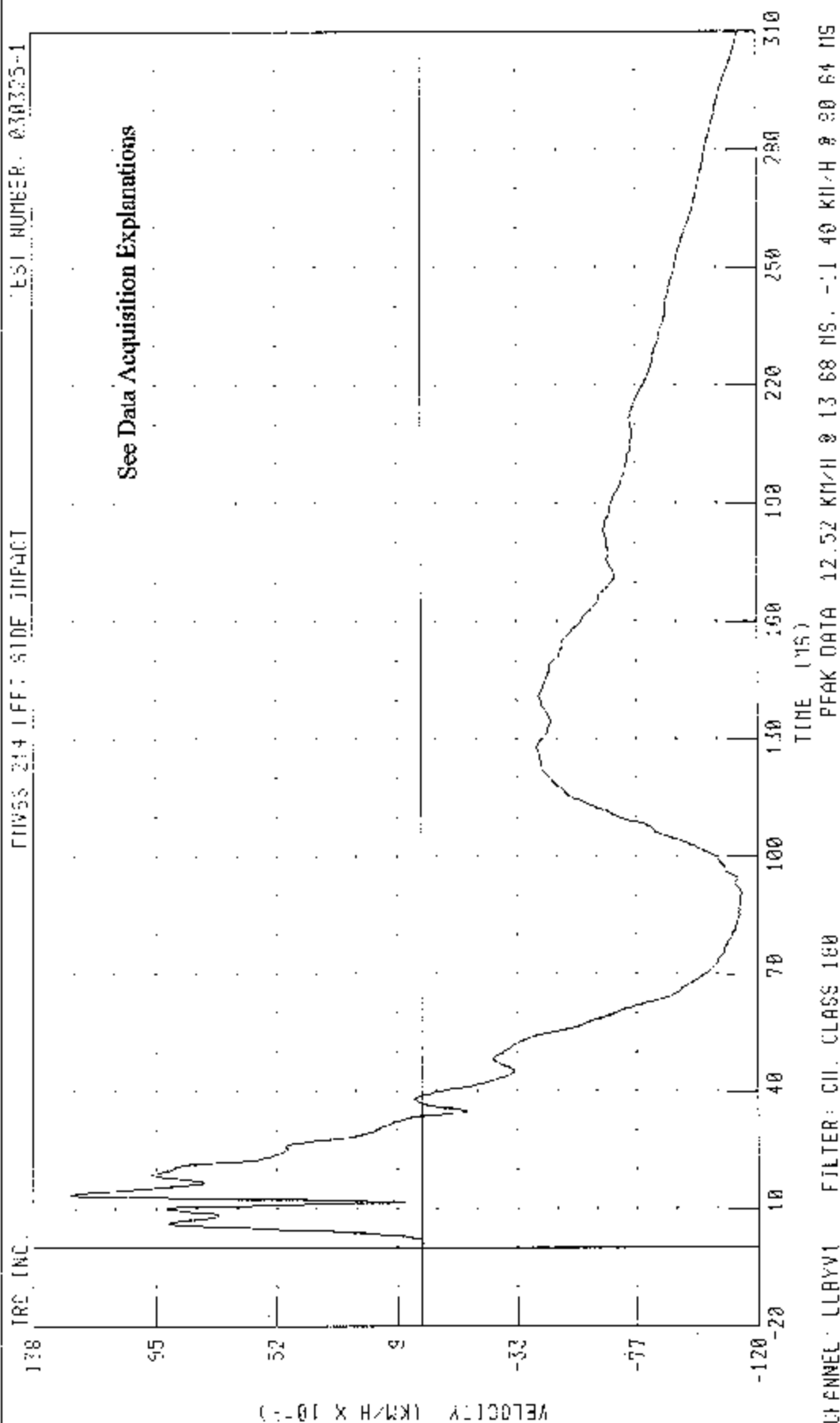
TIME (MS)

CIRANFI LL3VC1 FILTER CH. CLASS 60

FOR DATA: 58.12 G @ 1.48 MS, -27.00 G @ 27 MS

ACCELERATION (G)

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING INFORMABLE BARRIER) INTO LEFT SIDE OF PAIR HUMAN OCCUPY
LEFT LOWER B-POST Y-AXIS VELOCITY

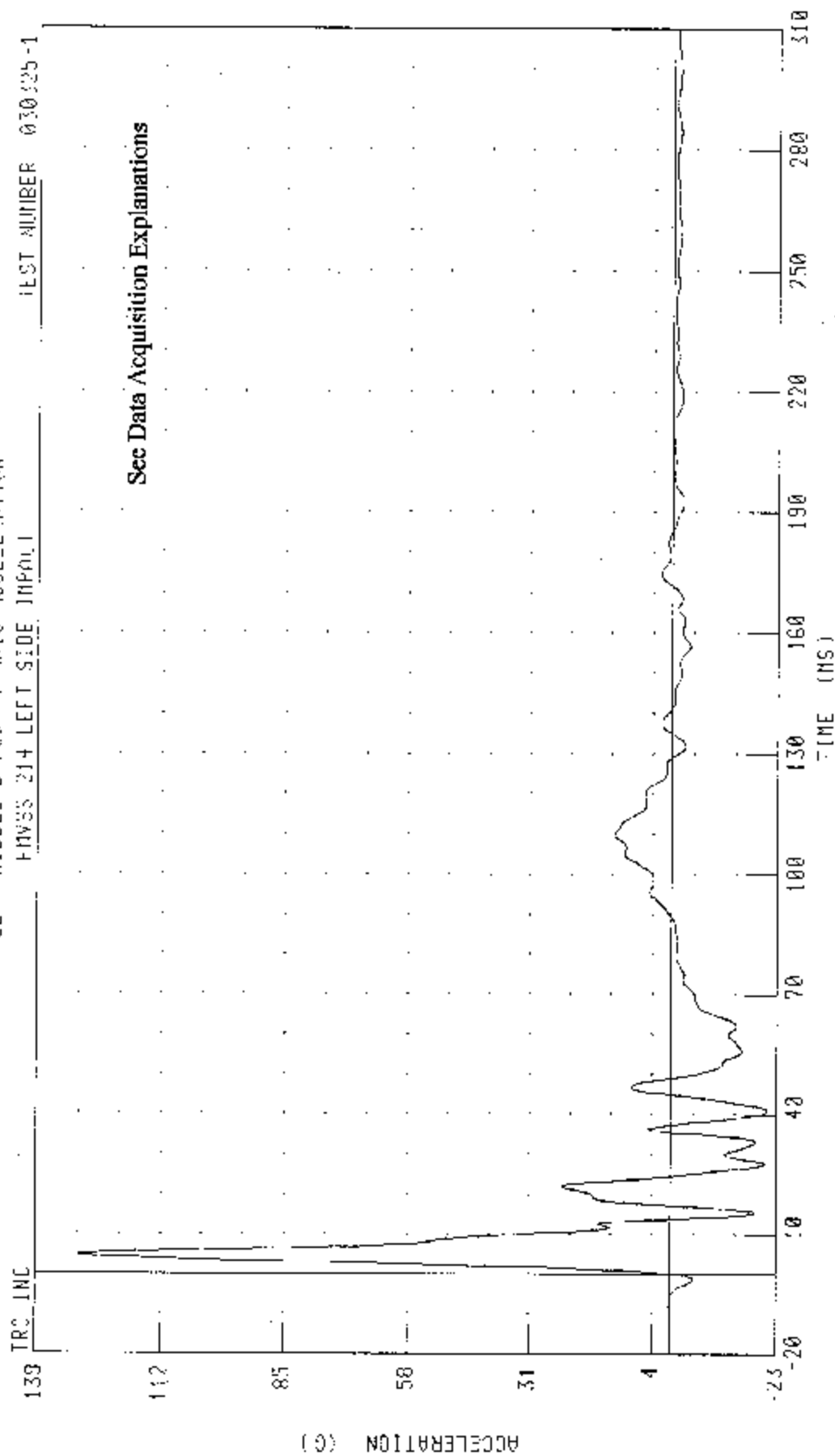


55/20 KPH 90 DEGREE SIDE IMPACT (MOVING UPRIGTHABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT MIDDLE 8 POST Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

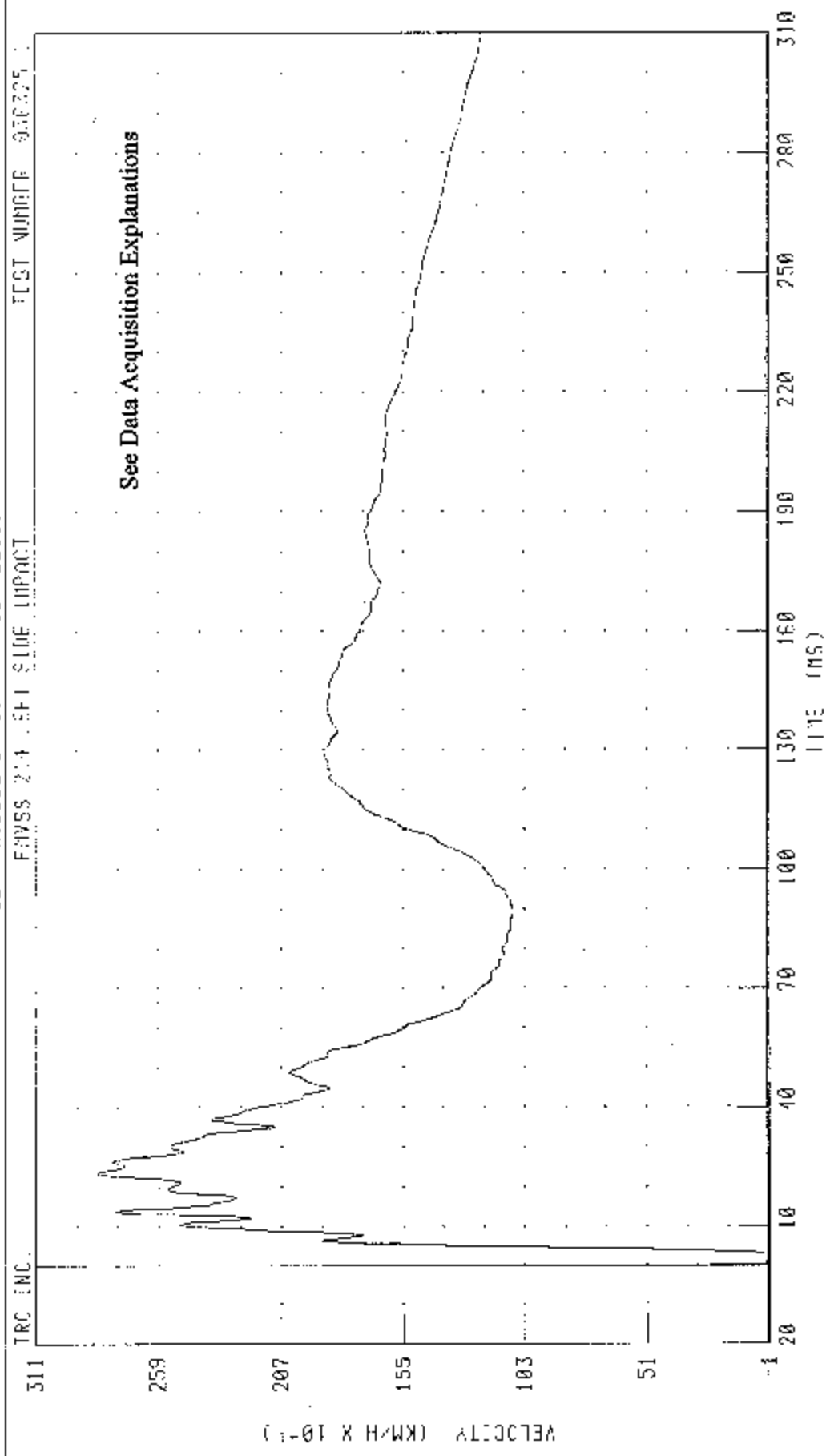
TEST NUMBER 030325-1



CHANNEL LM8YC1 FILTER CH CLASS 60

PLAK DATA 129 78 G @ 4.80 MS; -21 00 G @ 40.80 MS

5/28 KPP 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT MIDDLE B POST Y-Axis VELOCITY

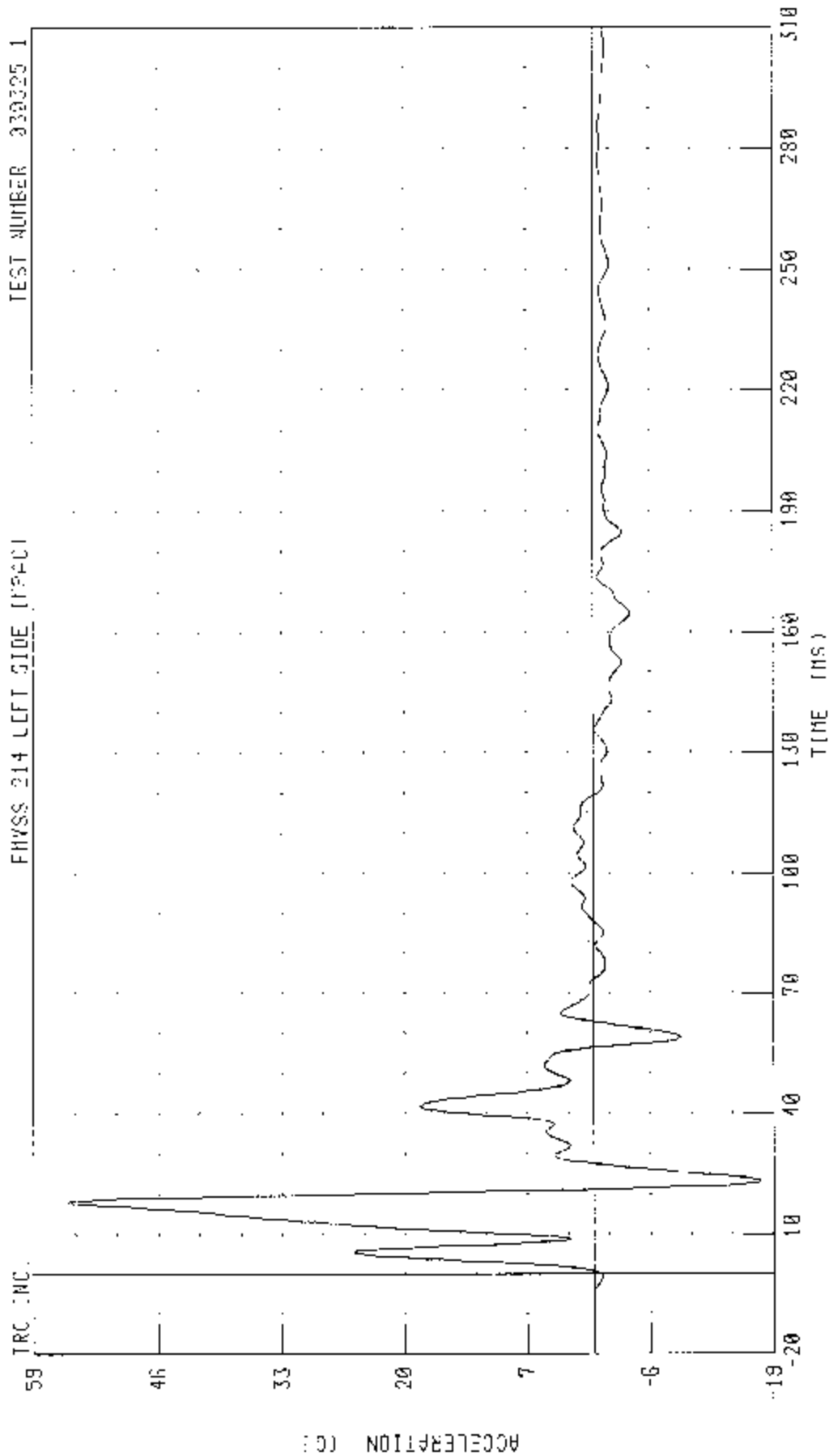


CHANNEL: LMBYV1 FILTER: CH CLASS 180
 PEAK DATA 28.49 KM/H @ 23.52 MS, -0.13 KM/H @ 2.40 MS

55/28 MPH 30 DEGREE SIDE IMPACT INVOLVING OFFSHORE PARALLEL INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT FRONT SENT TRACK X-AXIS ACCELERATION

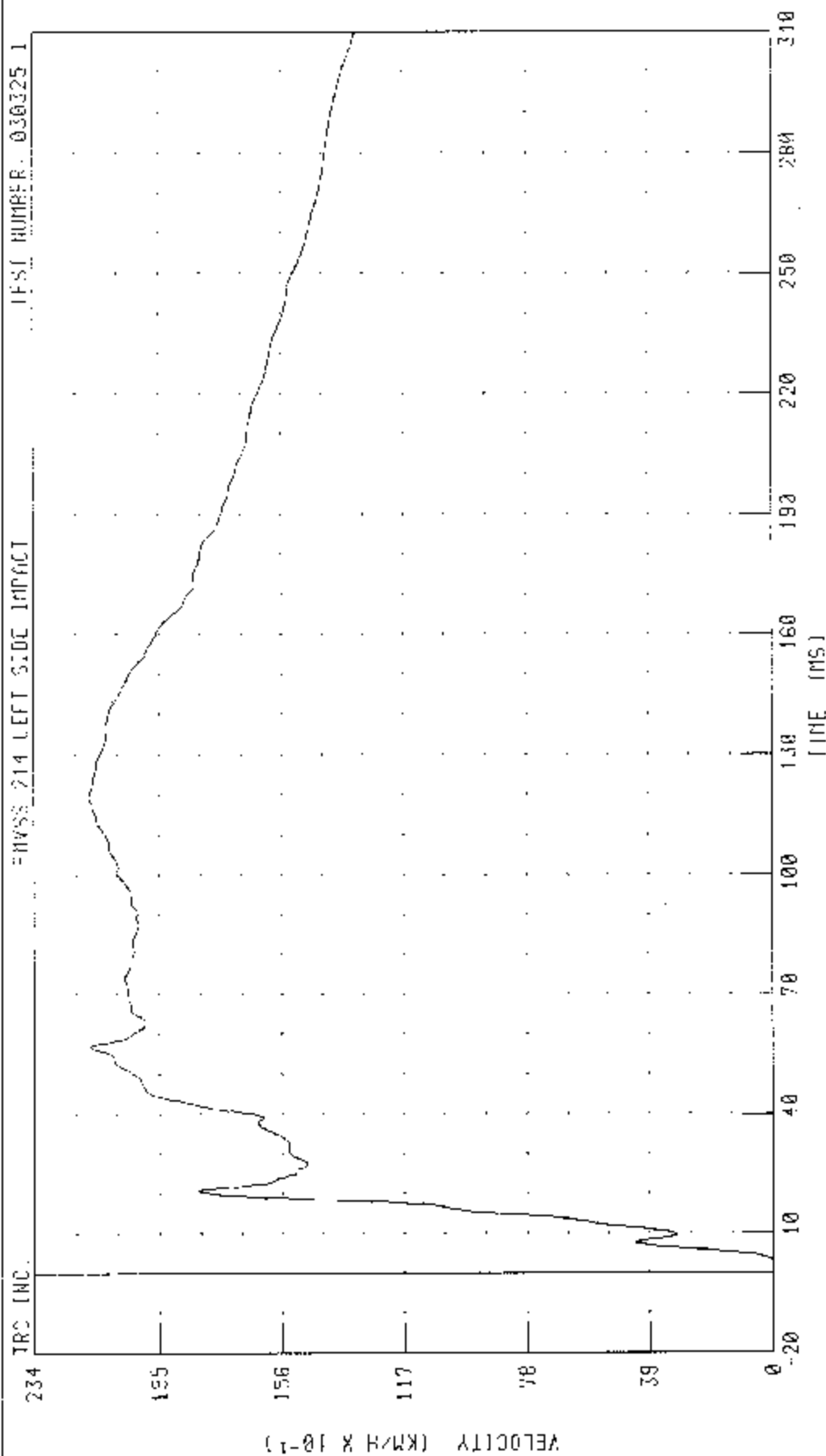
PHYSS 214 LEFT SIDE IMPACT TEST NUMBER 330325 1



CHANNEL LFTY01 FILTER - CH. CLASS 60 PLOK DATA 55 35 0 @ 18.16 MS. -17.62 G @ 23.20 MS

55/29 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT FRONT SEAT TRACK Y-AXIS VELOCITY



PEAK DATA: 21 69 KM/H @ 119.60 MS; -0 01 KM/H @ 2.48 MS

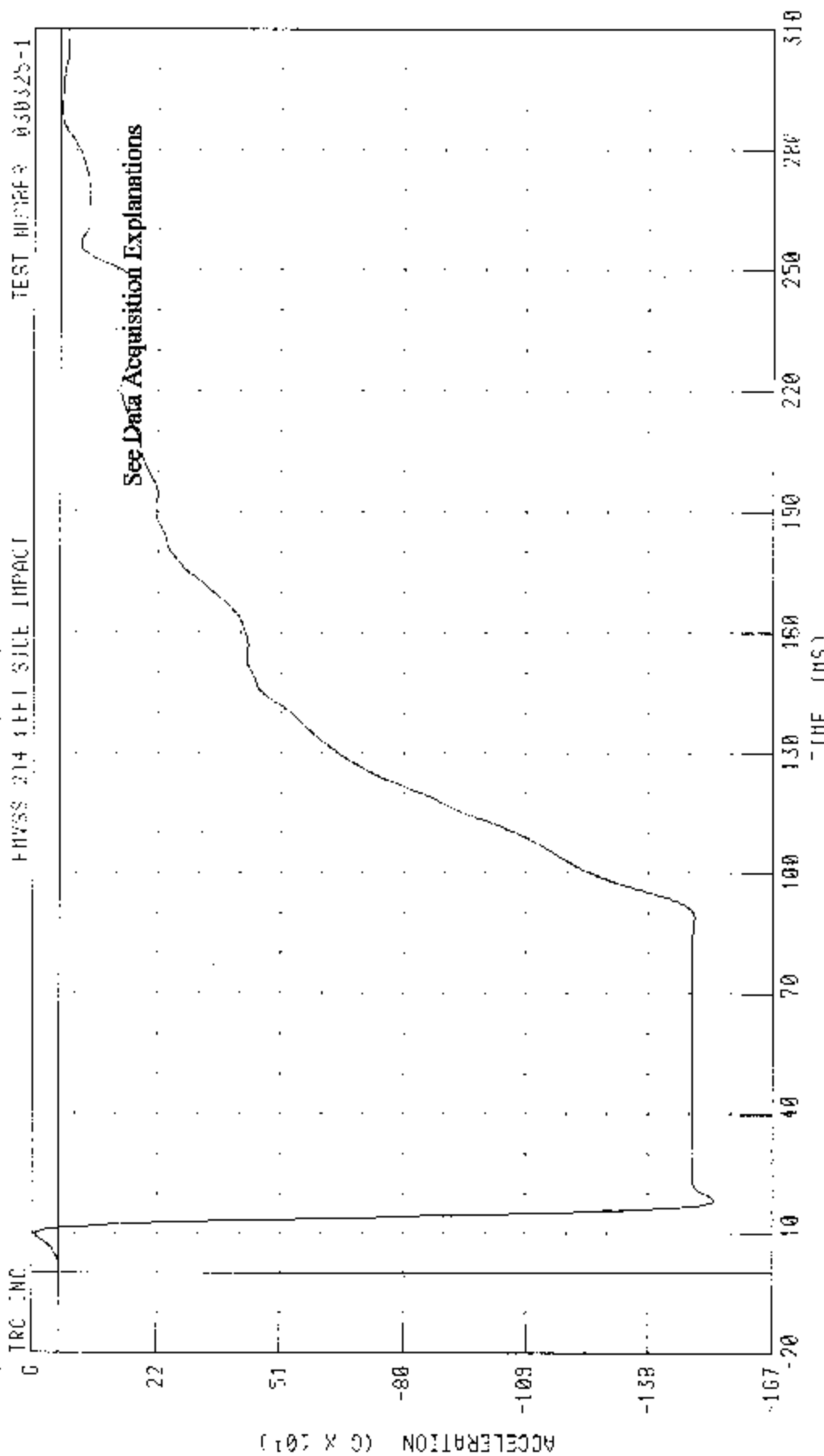
CHANNEL: LFTYV1 FILTER: CH CLASS 180

55/28 KPH 9M DEGREE SIDE IMPACT (MOV L.C. DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

FFI REAR SEAT TRACK Y AXIS ACCELERATION

TEST NUMBER 030325-1

FWSS 214 LEFT SIDE IMPACT

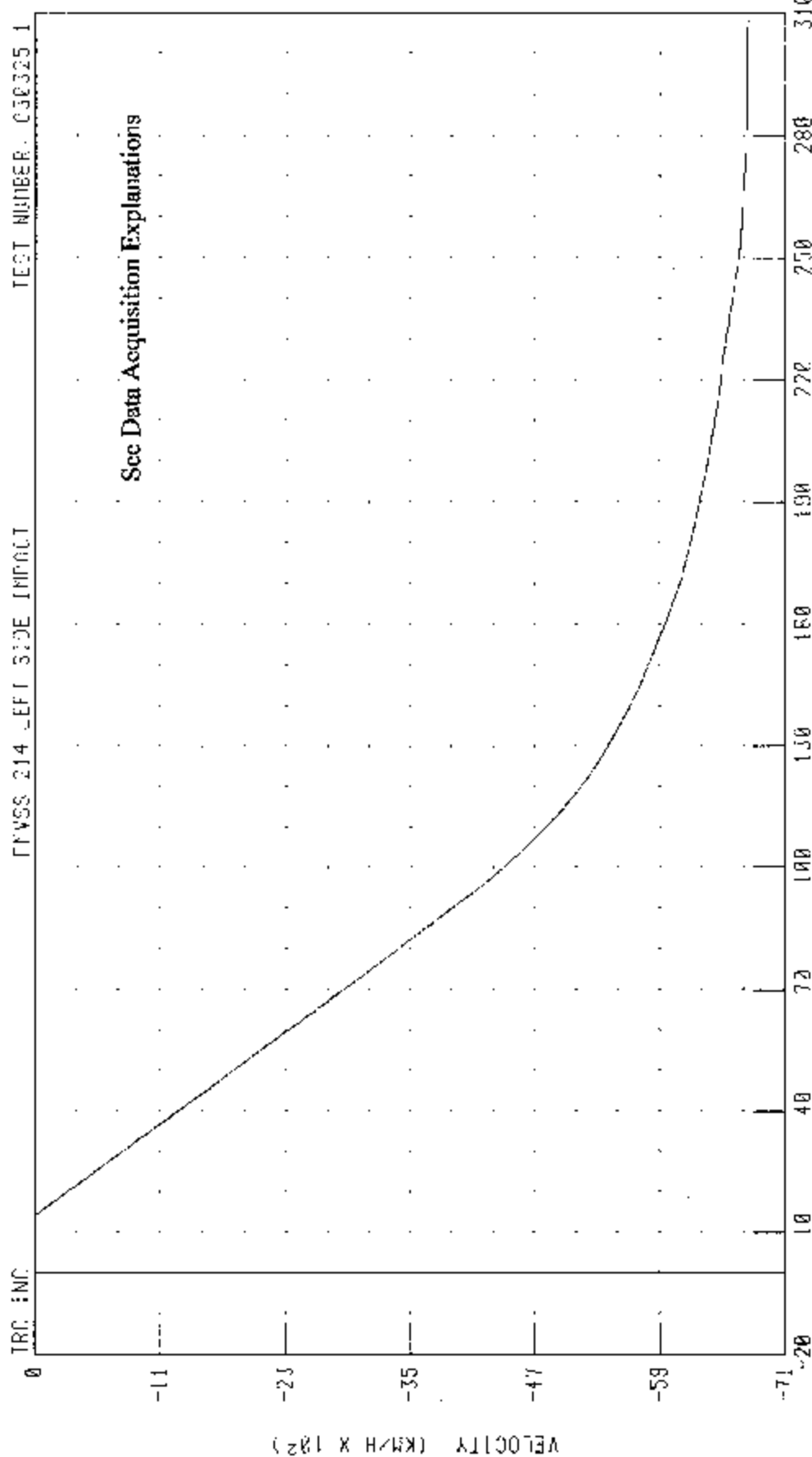


CHANNEL 1RTY01 FILTER: CH CLASS 60

PEAK DATA: 55.91 G @ 9.76 MS; -1043.73 G @ 18.40 MS

55/28 4PR 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR SEAT TRACK Y AXIS VELOCITY

TRC INC TEST NUMBER: 030325 1



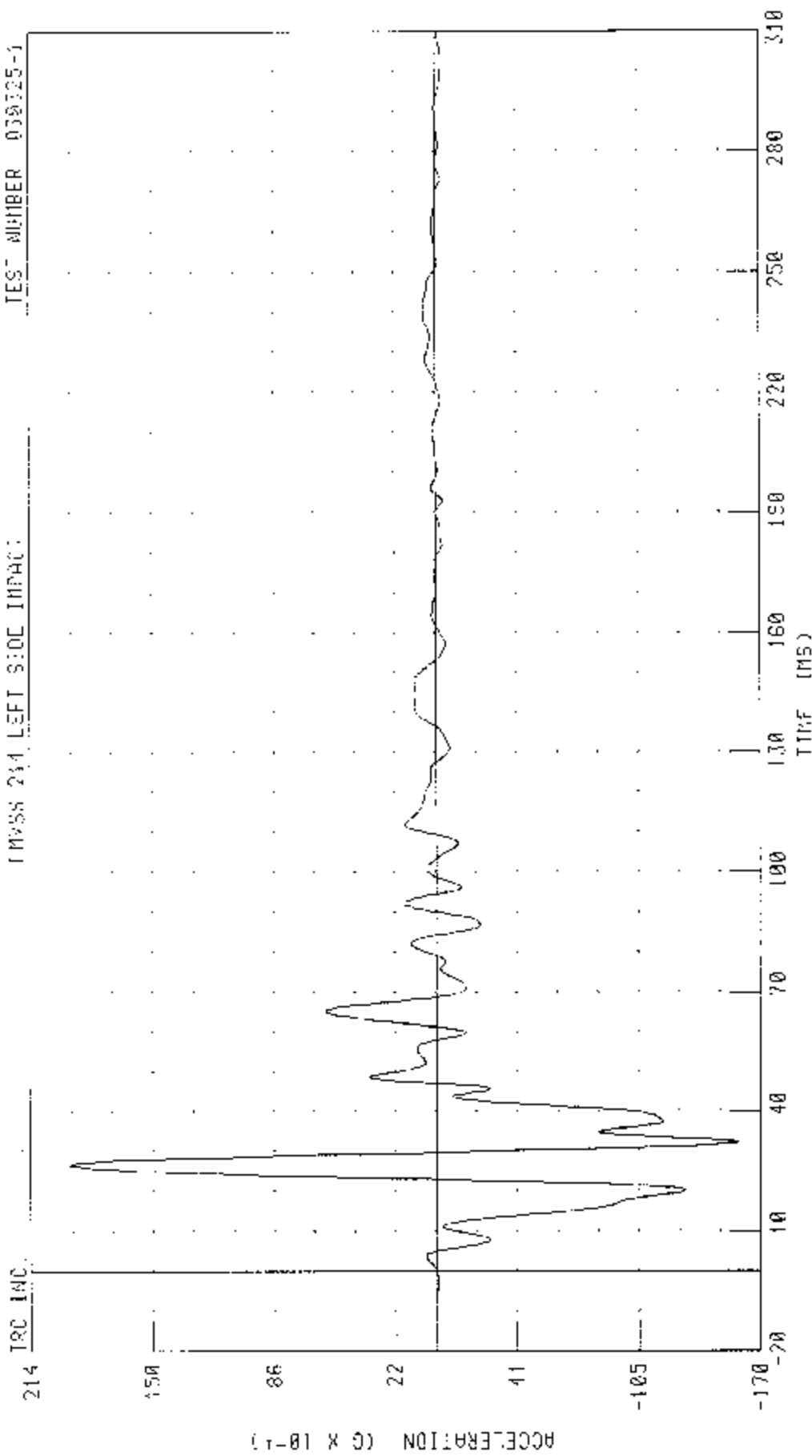
CHANNEL: LRTYV1 FILTER: CH CLASS 180
 TIME (MS) PFMK DATA: 3 98 KM/H @ 13 12 MS, -6838 14 KM/H @ 310.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

VEHICLE CENTER OF GRAVITY X-AXIS ACCELERATION

IMPSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



CITANVILL: VDCXG1 FILTER CH CLASS 60

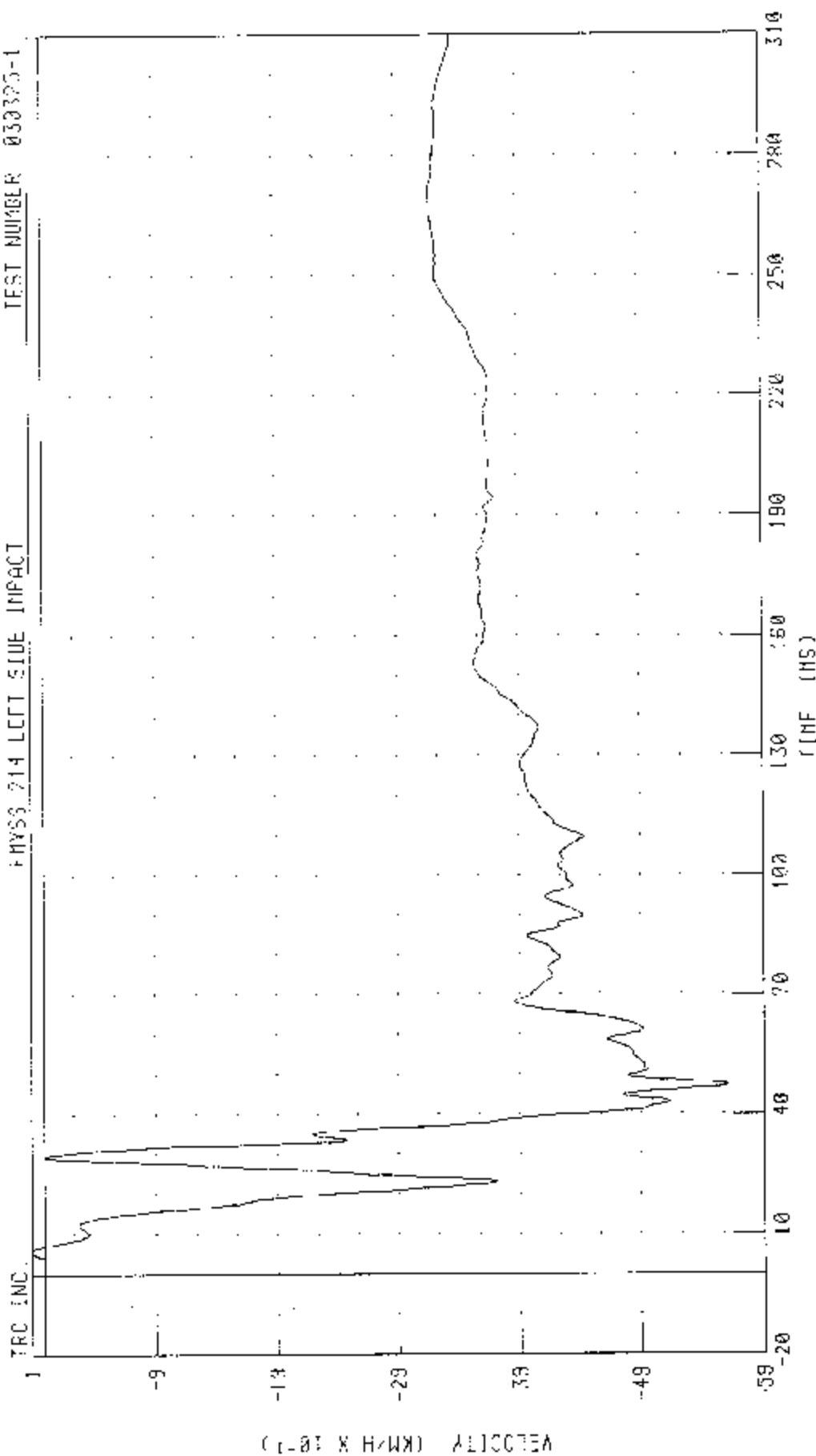
PEAK DATA: 19.33 G @ 26.50 MS; -15.83 G @ 32.24 MS

55/28 YPH 50 DEGREE SIDE IMPACT (MOVING OFFSHOULDER BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

VEHICLE CENTER OF GRAVITY X-AXIS VELOCITY

PHYS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



PEAK DATA: 0.13 KM/H @ 5.84 MS; -5.61 KM/H @ 47.36 MS

CHANNEL VCCXV1 FILTER CH CLASS 180

55428 KPH 100 LEFT SIDE IMPACT (MOVING FORWARD) INTO LEFT SIDE OF 2000 HONDA ACCORD

VEHICLE CENTER OF GRAVITY Y AXIS ACCELERATION

TEST NUMBER: 030325 1

FMVSS 214 LEFT SIDE IMPACT

TRC INC

65

44

23

2

-19

-40

-61

ACCELERATION (G)

TIME (MS)

PEAK DATA: 62 76 0 0 27 32 MS -56 16 0 0 27 76 MS

CHANNEL: VCCYGI FILTER: CH. CLASS 60

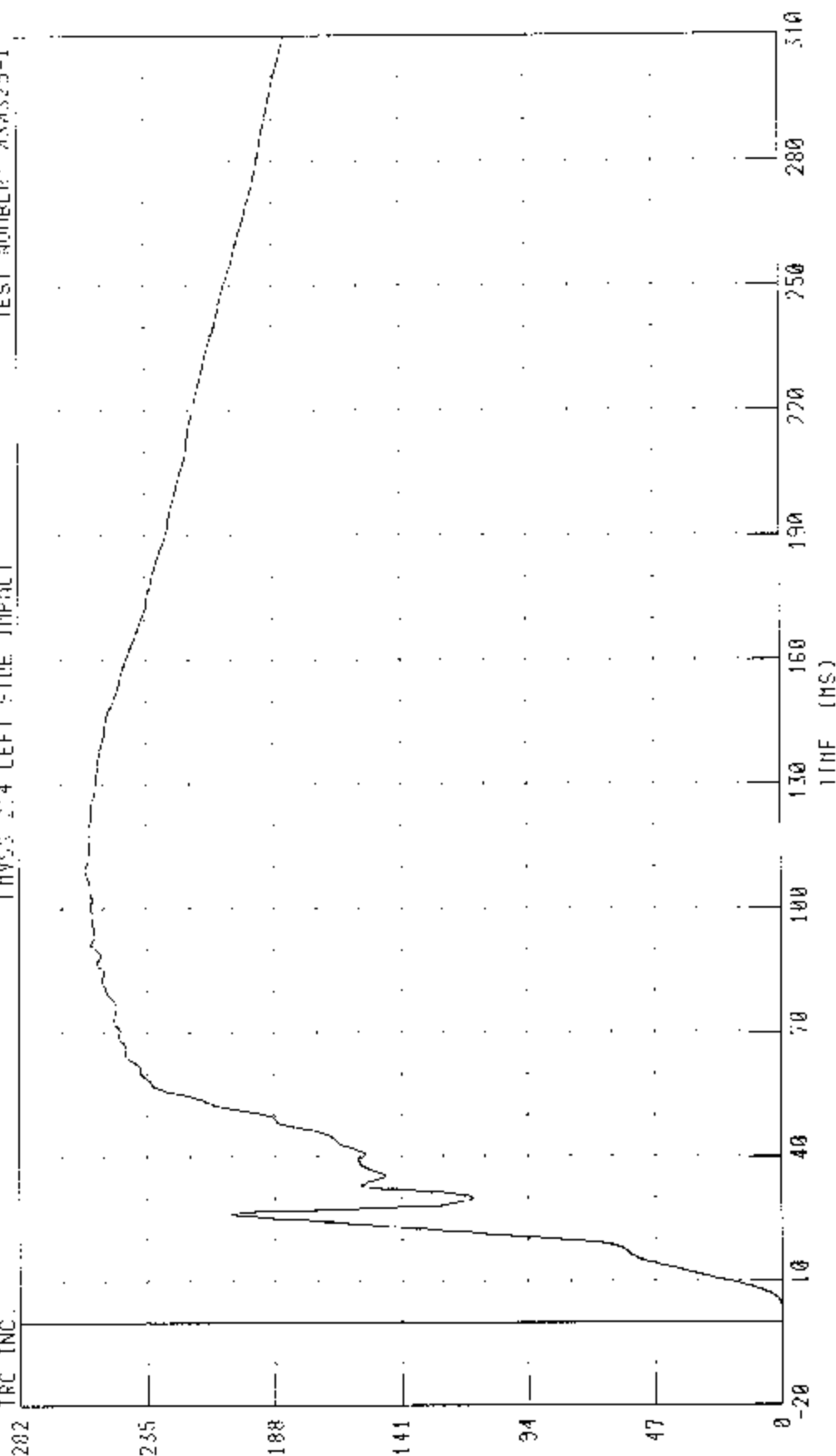
55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

VEHICLE CENTER OF GRAVITY Y AXIS VELOCITY

TEST NUMBER: ASA325-1

PHYS 214 LEFT SIDE IMPACT

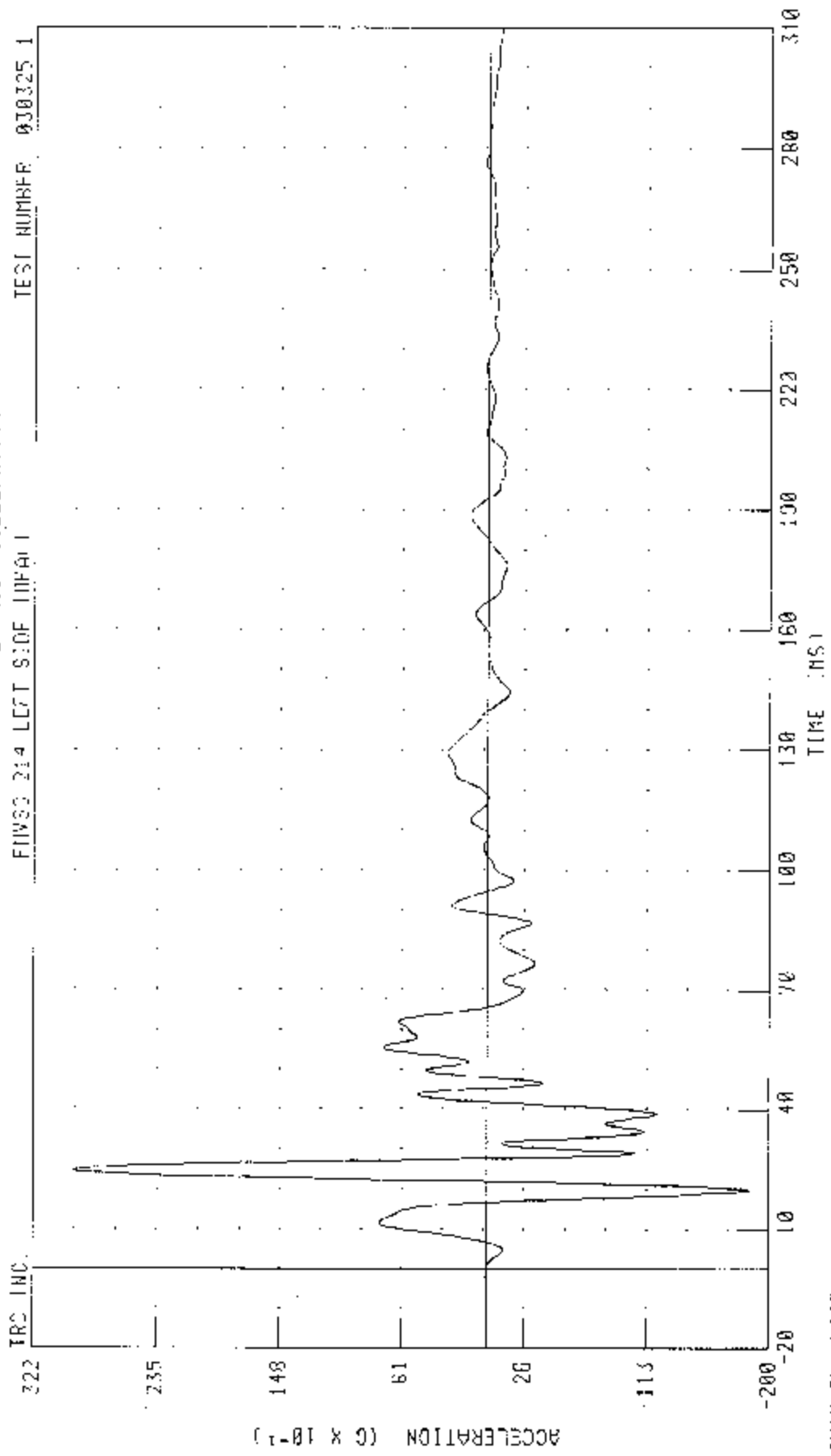
TRC INC.



PEAK DATA: 25.76 KPH @ 100.60 MS; 0.00 KPH @ 3.12 MS

CHANNEL VCCV1 FILTER: CH. CLASS 180

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 1981 IMPALA ACCORD
 VEHICLE CENTER OF GRAVITY Z-AXIS ACCELERATION



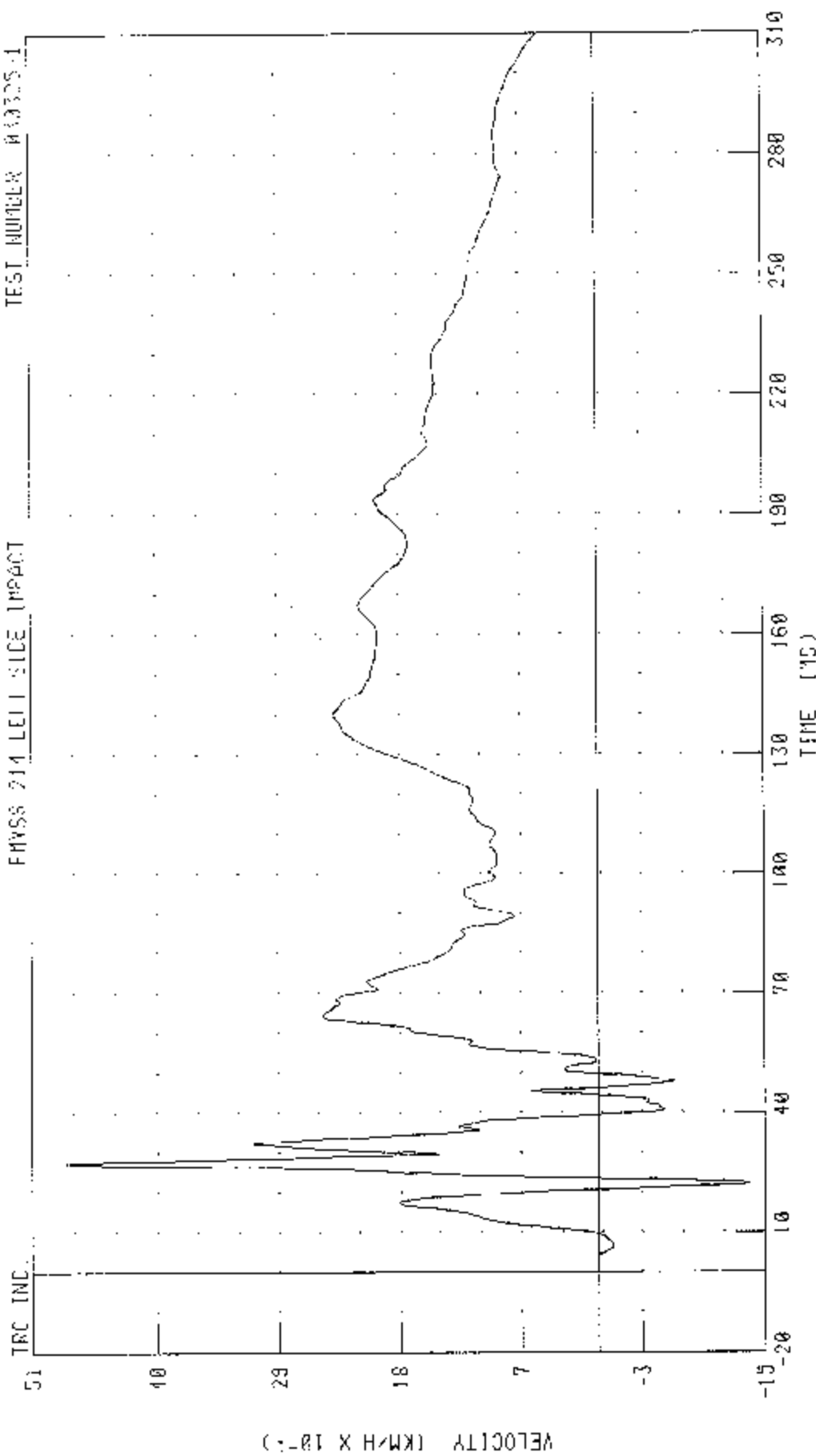
CHANNEL V00201 FILTER: CH CLASS 60
 PEAK DATA 29.57 G @ 24.00 MS, -18.53 G @ 13.92 MS

55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

VEHICLE CENTER OF GRAVITY Z-AXIS VELOCITY

PHYS 214 LEFT SIDE IMPACT

TEST NUMBER H03025-1



PEAK DATA 4 82 KM/H @ 27 44 MS; -1 36 KM/H @ 22 74 MS

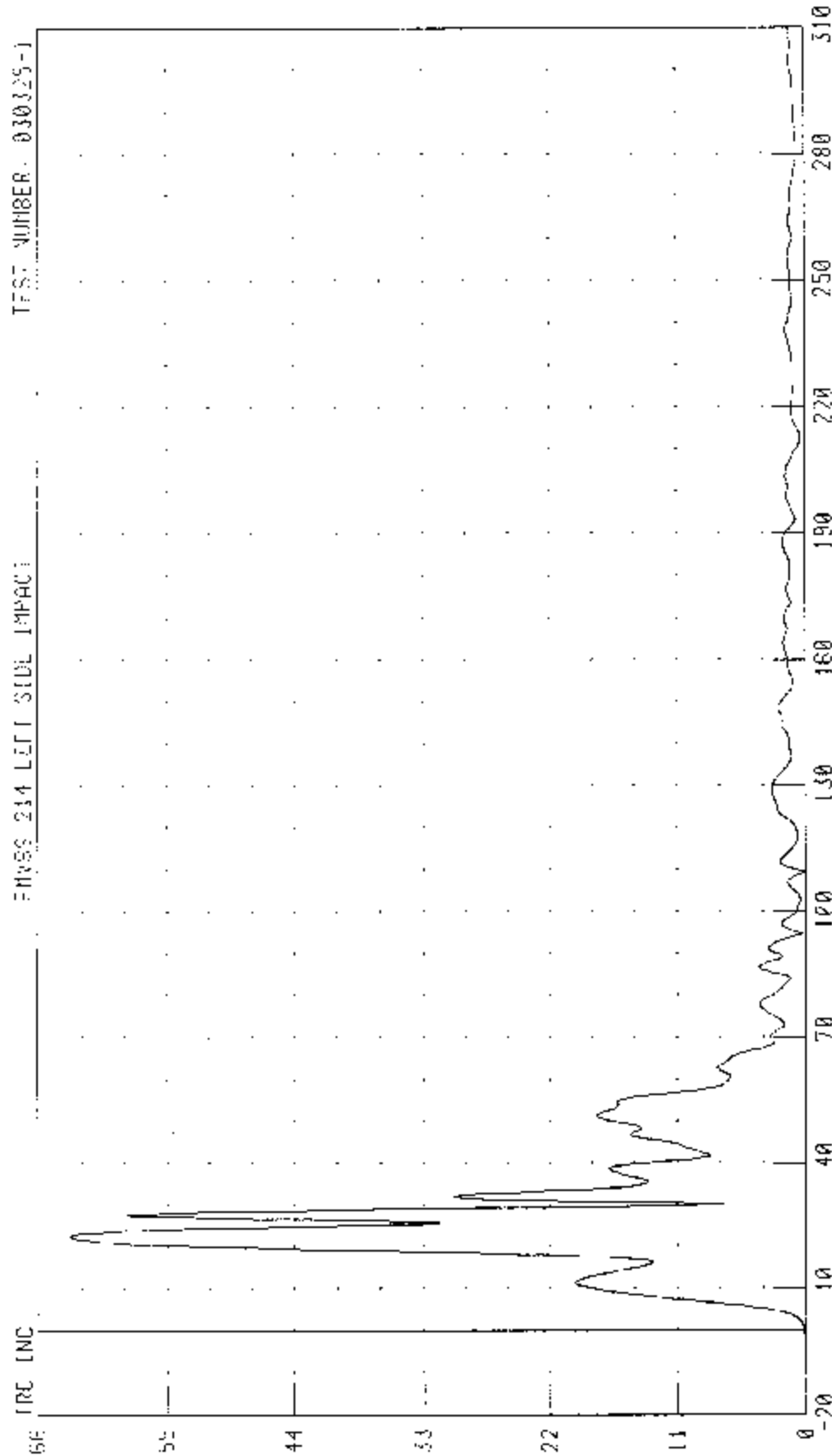
CHANNEL: VCCZV1 FILTER: CF CLASS 1B0

55/20 KPH 50 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2007 HONDA ACCORD

VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION

TEST NUMBER: 030325-1

IMPACT 214 LEFT SIDE IMPACT



TIME (MS)

CHANNEL: VCGRG1 FILTER: CH. CLASS: 00

PEAK DATA: 63.24 G @ 22.40 MS, @ 00 G @ -12.00 MS

ACCELERATION (G)

MDB Instrumentation Plots

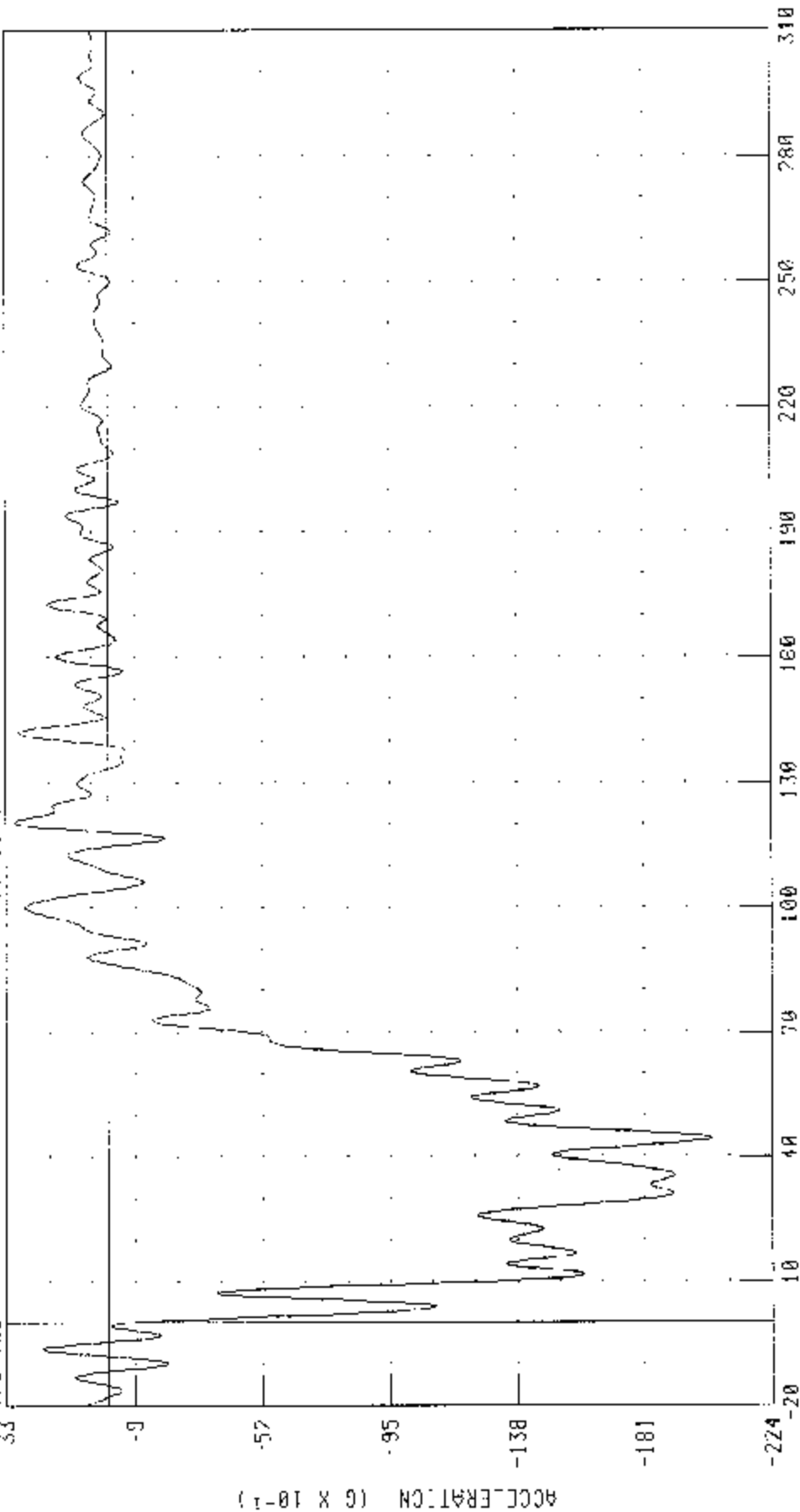
55/28 MPH 90 DEGREE SIDE IMPACT INVOLVING DEFORMABLE BARRIER) INT1 FET SIDE 16 2403 HUNTER ACCED

NOB CENTER OF GRAVITY X-AXIS ACCELERATION

TEST NUMBER 030325-1

FMVSS 214 LEFT SIDE IMPACT

TRC IND



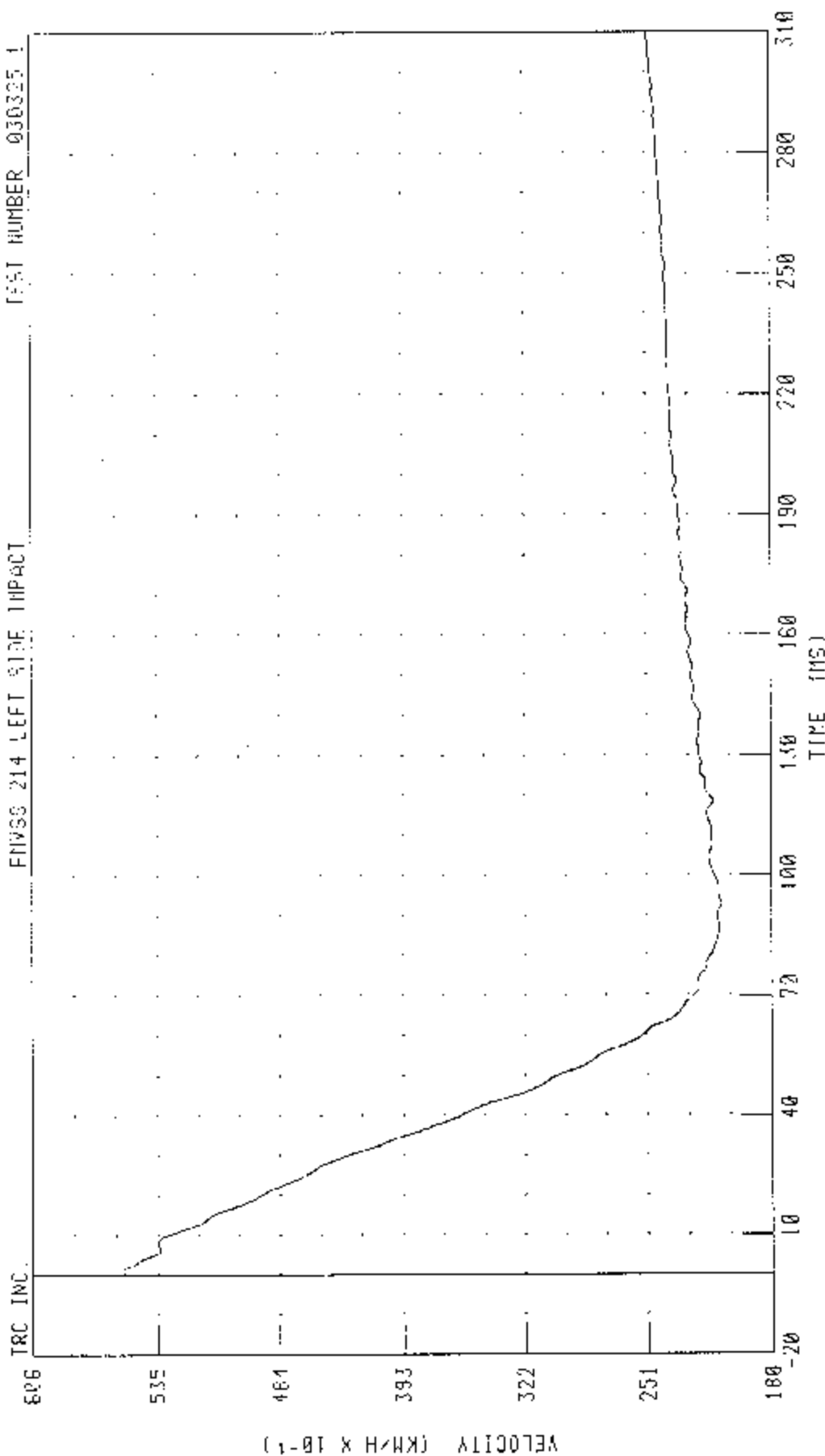
CHANNEL BCGXG1 FILTER CF. CLASS 50

PEAK DATA 3 10 6 8 120 64 MS. -20 36 0 9 44 40 1'S

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE ROCKET) INTO LEFT SIDE OF 2003 HONDA ACCORD

FOR CENTER OF GRAVITY X-AXIS VELOCITY

FNVS 214 LEFT SIDE IMPACT TEST NUMBER 030325-1

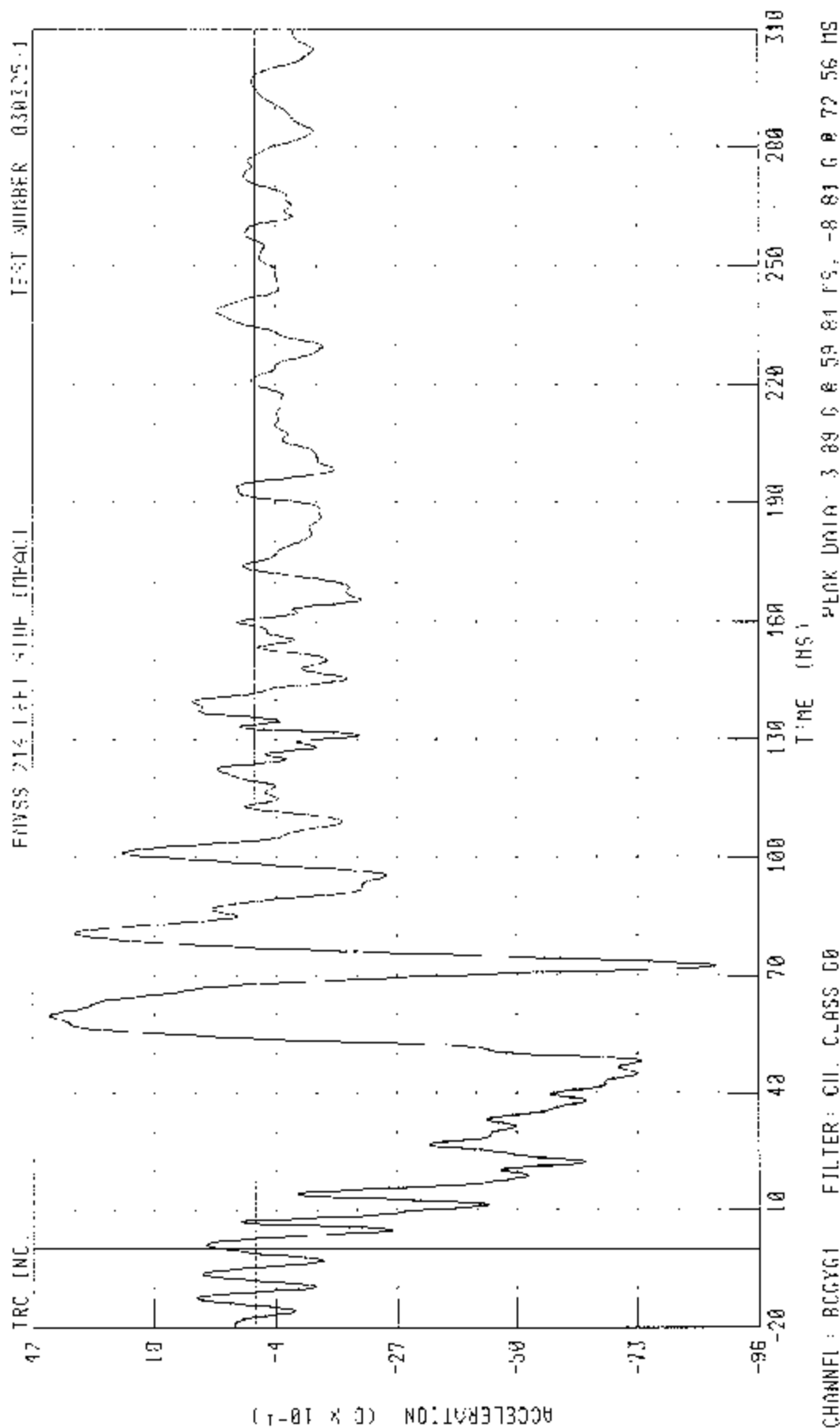


PEAK DATA: 55 46 KPH/H @ 1 12 MS; 20.84 XH/H @ 92 80 MS

CHANNEL BCCXV1 FILTER: CH. CLASS 180

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARrier) INTO LEFT SIDE OF 2003 HONDA ACCORD

HOB CENTER OF GRAVITY X-AXIS ACCELERATION



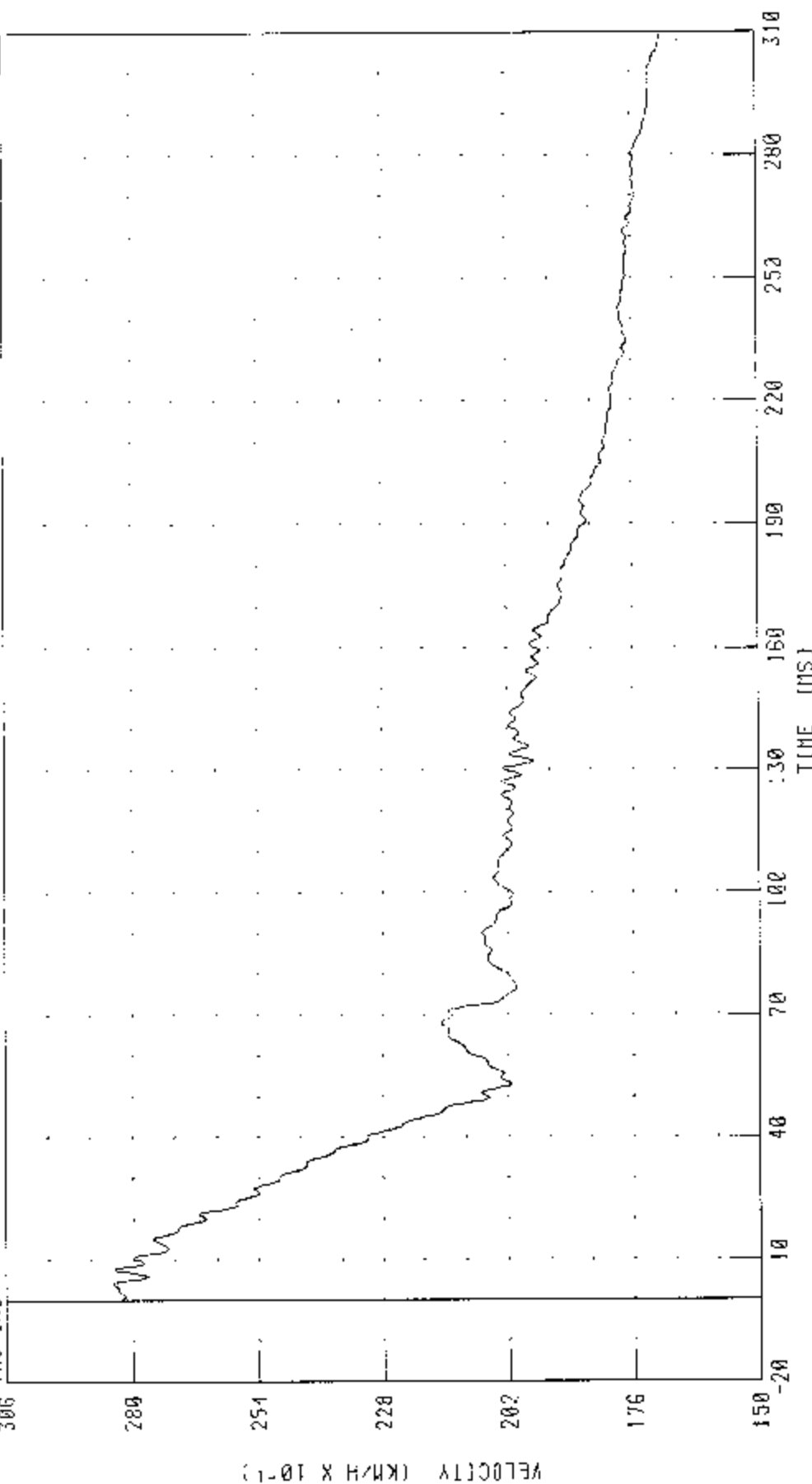
55/28 KPH 90 DEGRES SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

ADB CENTER OF GRAVITY Y AXIS VELOCITY

TEST NUMBER 030325-1

FMVSS 214 LEFT SIDE IMPACT

IRC INC



CIANNH1: BUCYV1

FILTER: CH CLASS 100

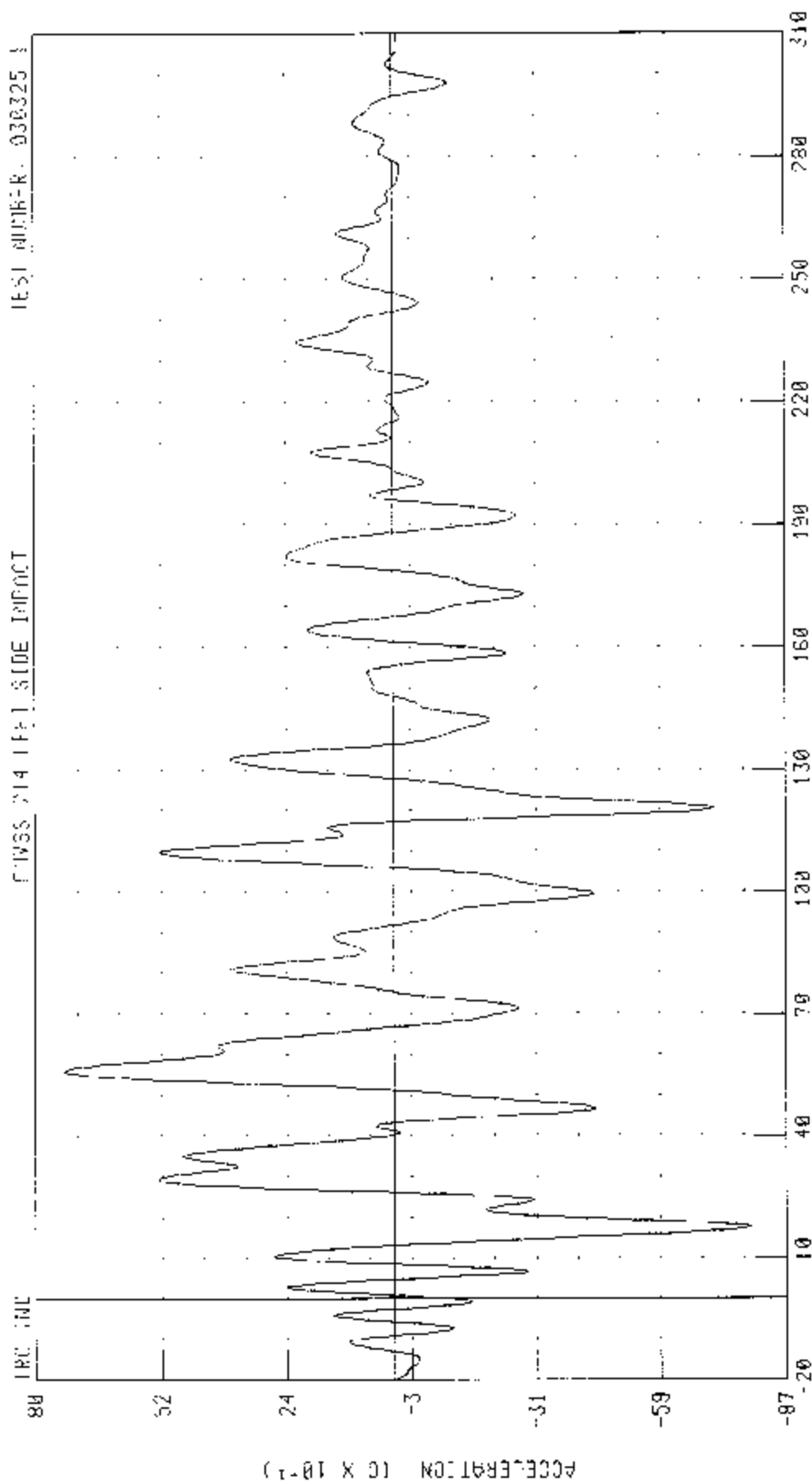
PEAK DATA 28 41 KM/H @ 4 16 MS, 16 95 KPH @ 310 00 MS

55228 KPH 90 DEGREE SIDE IMPACT (MOVING DEFENDABLE BARRIER) INTO LEFT SIDE OF DIRT HINDA ACCLURE

MID CENTER OF GRAVITY Z-AXIS ACCELERATION

TEST NUMBER: 030325-1

FINISH 214 11:21 SIDE IMPACT



TIME (MS)

CHANNEL: BCGZG1

FILTER: CH. CLASS 60

PEAK DATA: 7 34 6 8 56.08 MS, -8.00 G 9 17 76 MS

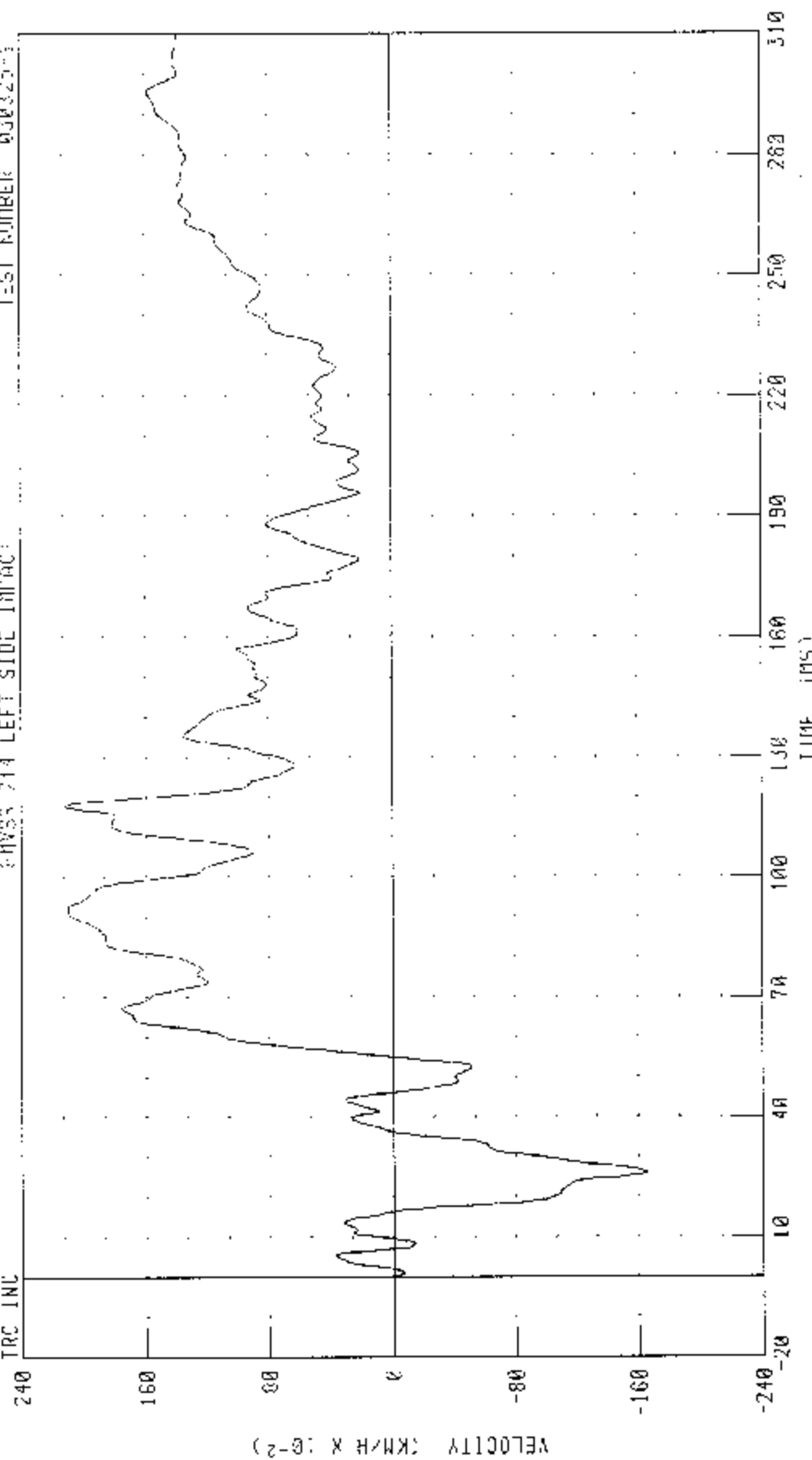
55-28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE EXPERIMENT) INTO LEFT SIDE OF 2003 HONDA ACCORD

MODE CENTER OF GRAVITY Z-AXIS VELOCITY

CHASS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1

TRC INC



CHANNEL BCGZV1 FILTER CH CLASS 180

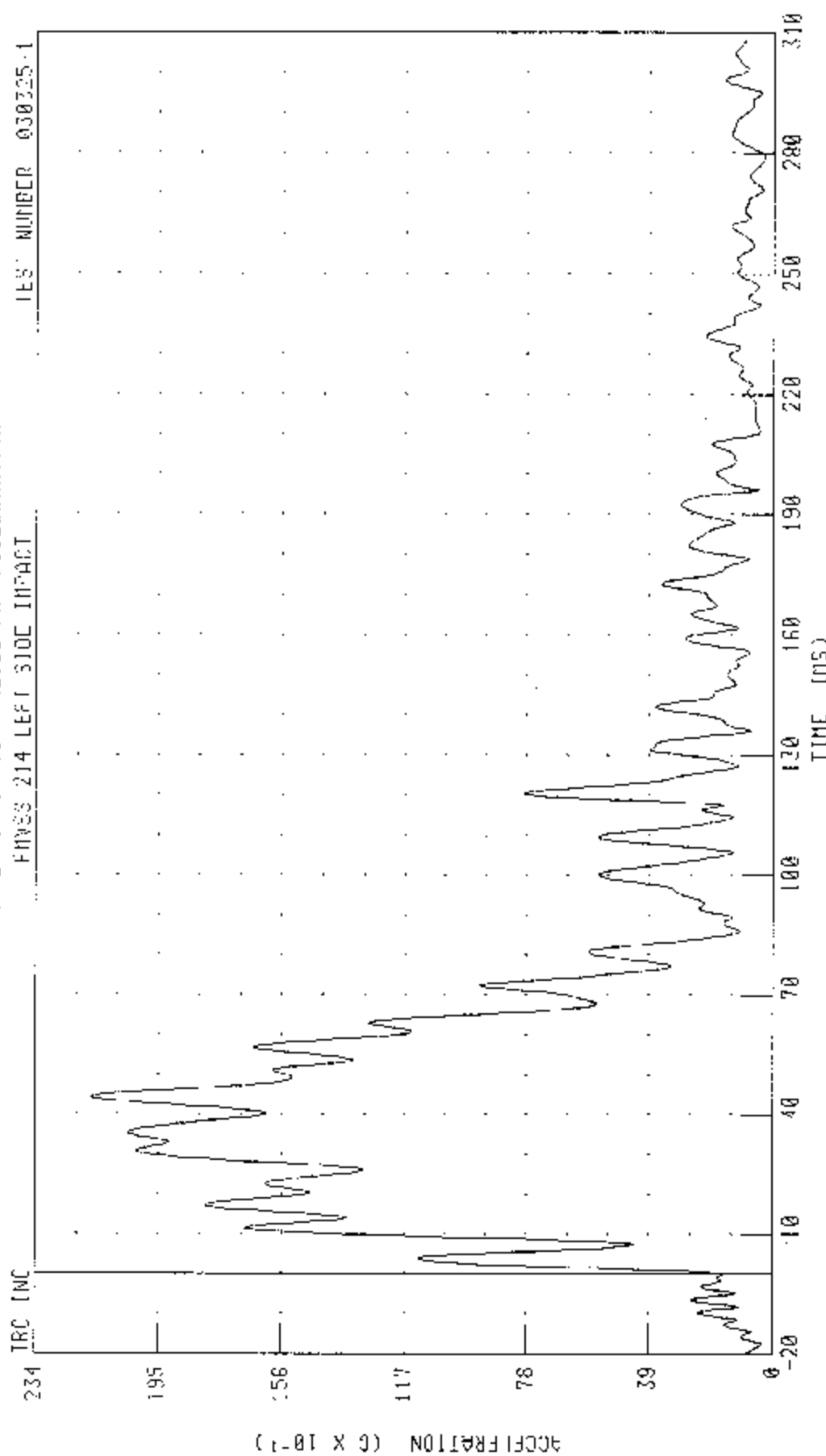
PEAK DATA: 2.12 KM/H @ 118.00 MS; -1.65 KM/H @ 25.10 MS

55/20 MPH 90 DEGREE 5' OF IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ALFORD

HICR CENTER OF GRAVITY REGION? ACCELERATION

FINES 214 LEFT SIDE IMPACT

IES NUMBER 030325-1



TIME (MS)

CHANF: 80CRG1 FILTER CH. CLASS 60

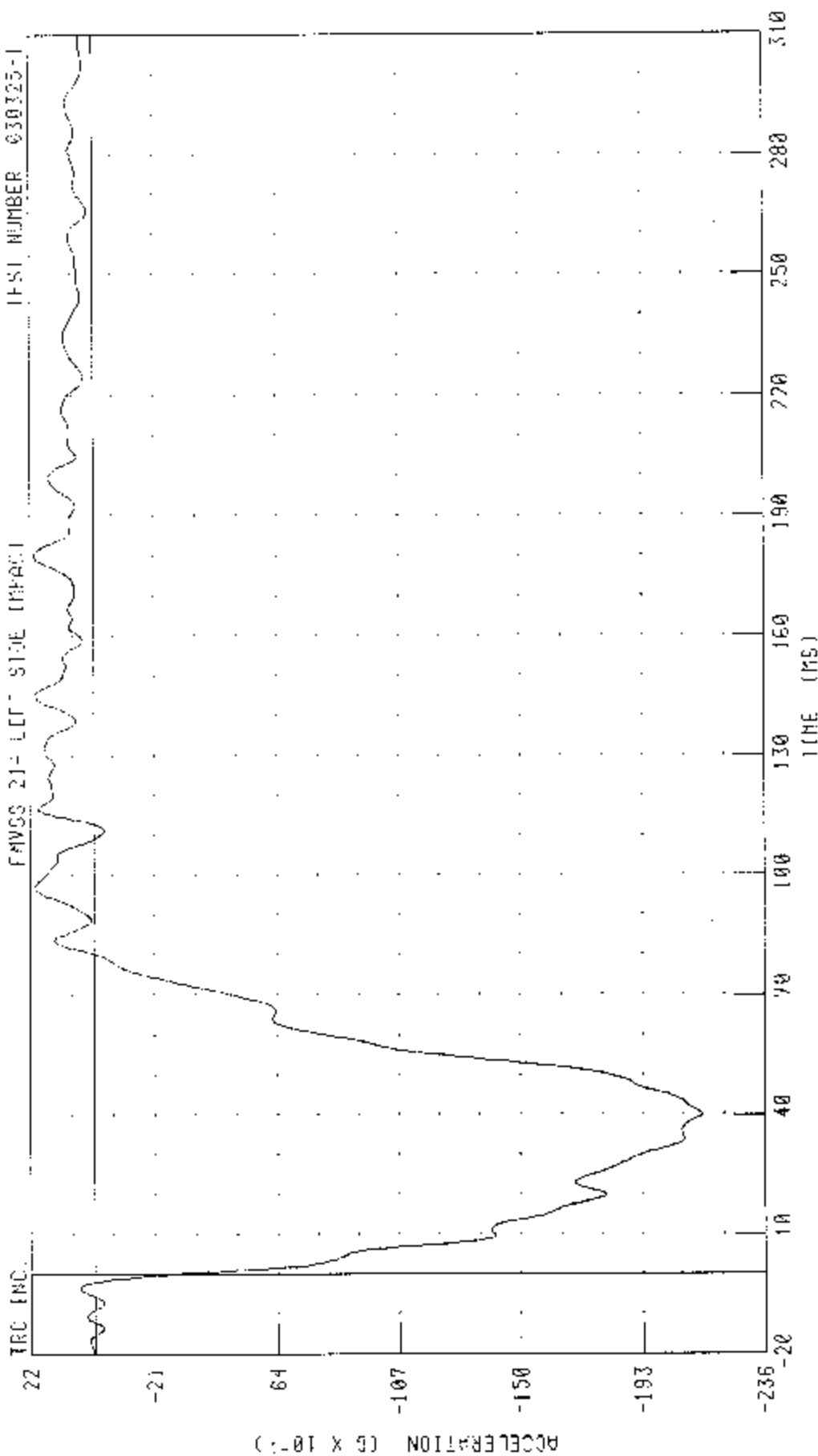
PEAK 0010 21.65 G @ 44.53 MS, @ 28.0 @ 279.20 MS

55-28 MPH 90 DEGREE SIDE IMPACT (MOVING REFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

HGO (LEFT REAR X-AXIS) ACCELERATION

FAVGS 21- LEFT SIDE IMPACT

IFSI NUMBER 030325-1



PEAK DATA 2 20 0 0 180 32 MS; -21 41 0 0 40 08 MS

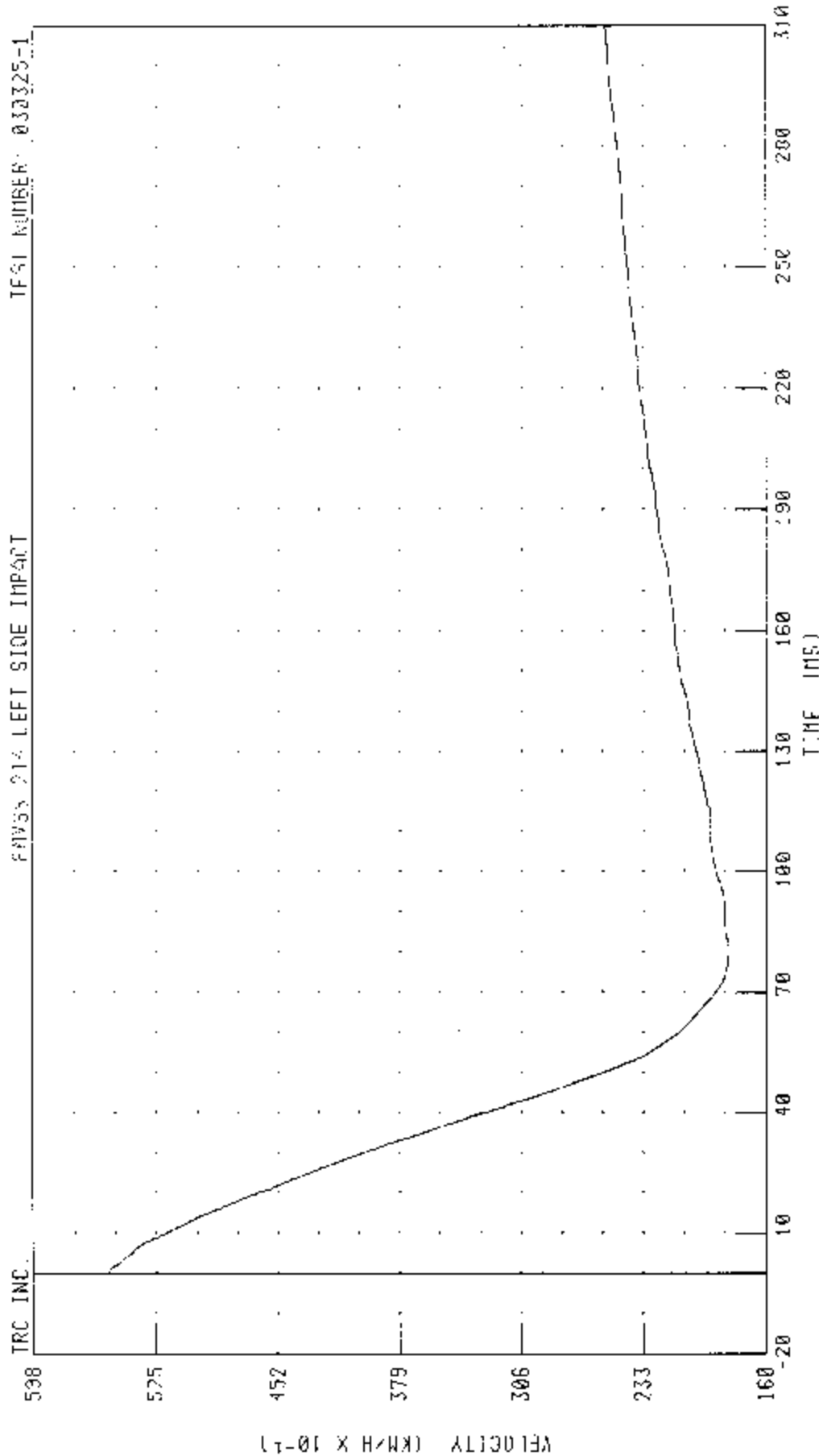
CHANNEL: LRRXG1 FILTER CH CLASS 60

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING OFFSHORE BARRIER) INTO LEFT SIDE OF 2003 HOV3.00 ACCORD

NDB LEFT REAR X-AXIS VELOCITY

PHYS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



CHANNEL: LRRXV1 FILTER C4 CLASS 180

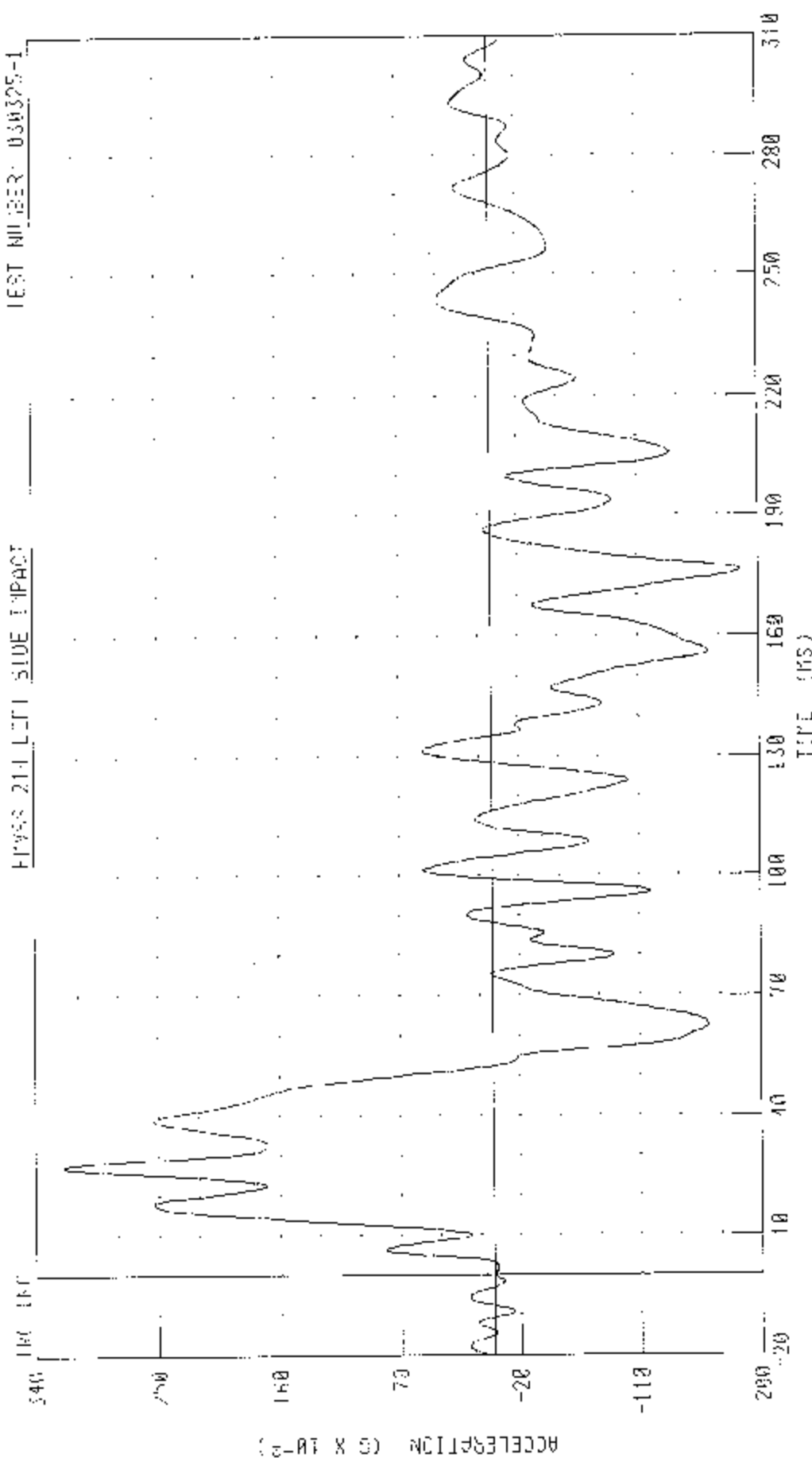
PEAK DATA: 55.30 KPH/H @ 0 00 MS, 18 22 KPH/H @ 81 04 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

H03 LEFT REAR Y-AXIS ACCELERATION

TEST NUMBER: 030325-1

FRASE 21-1 LEFT SIDE IMPACT



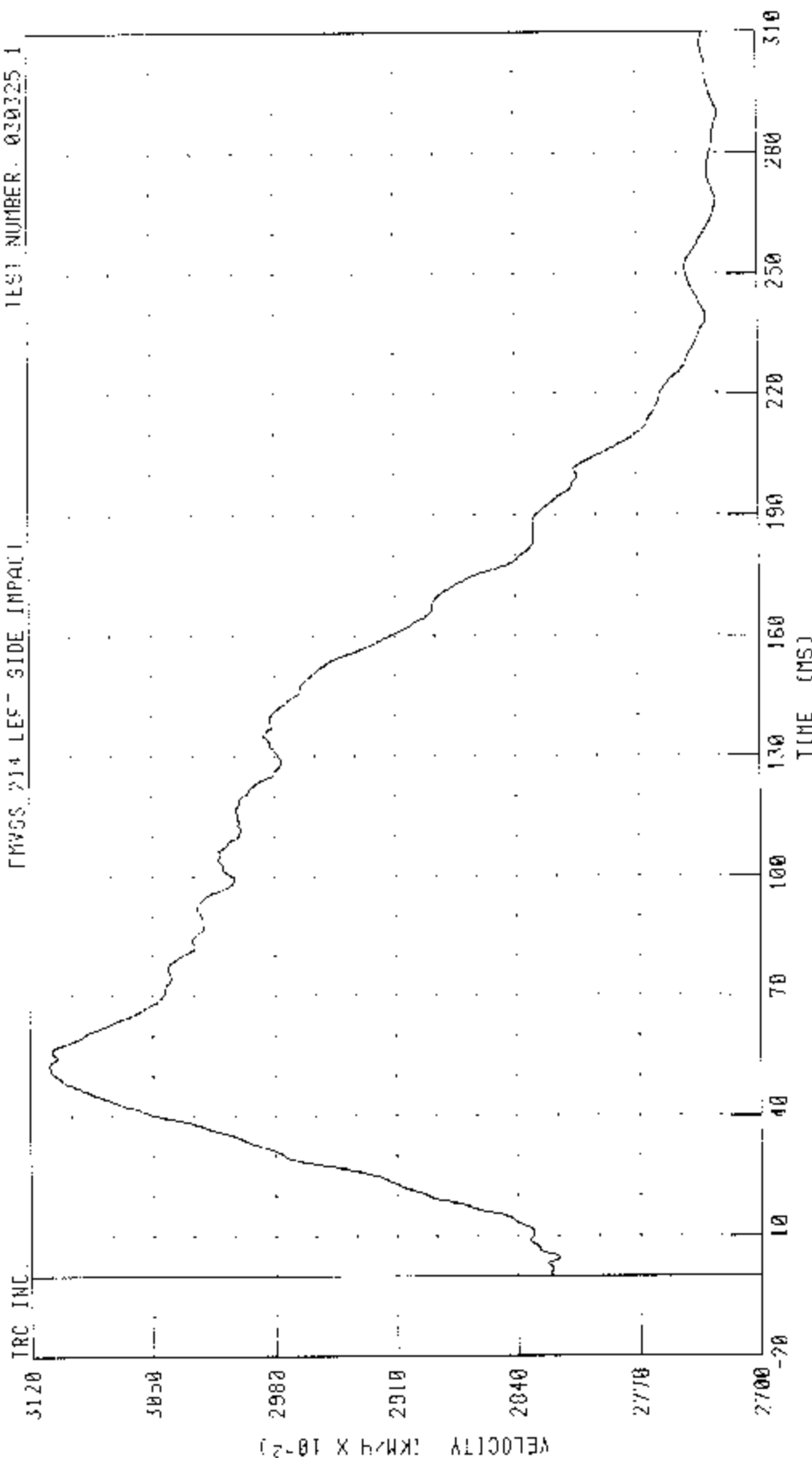
FLAK DATA: 3 28 0 0 27.44 MS: -1 00 0 0 176 24 MS

CHANNEL: LARYGI FILTER: CH CLASS: 00

55/28 KPH 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2003 HONDA ACCORD

MILB LEFT REAR Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT TEST NUMBER: 030325-1



PEAK DATA: 31.09 KM/H @ 52.64 MS, 27.23 KM/H @ 289.92 MS

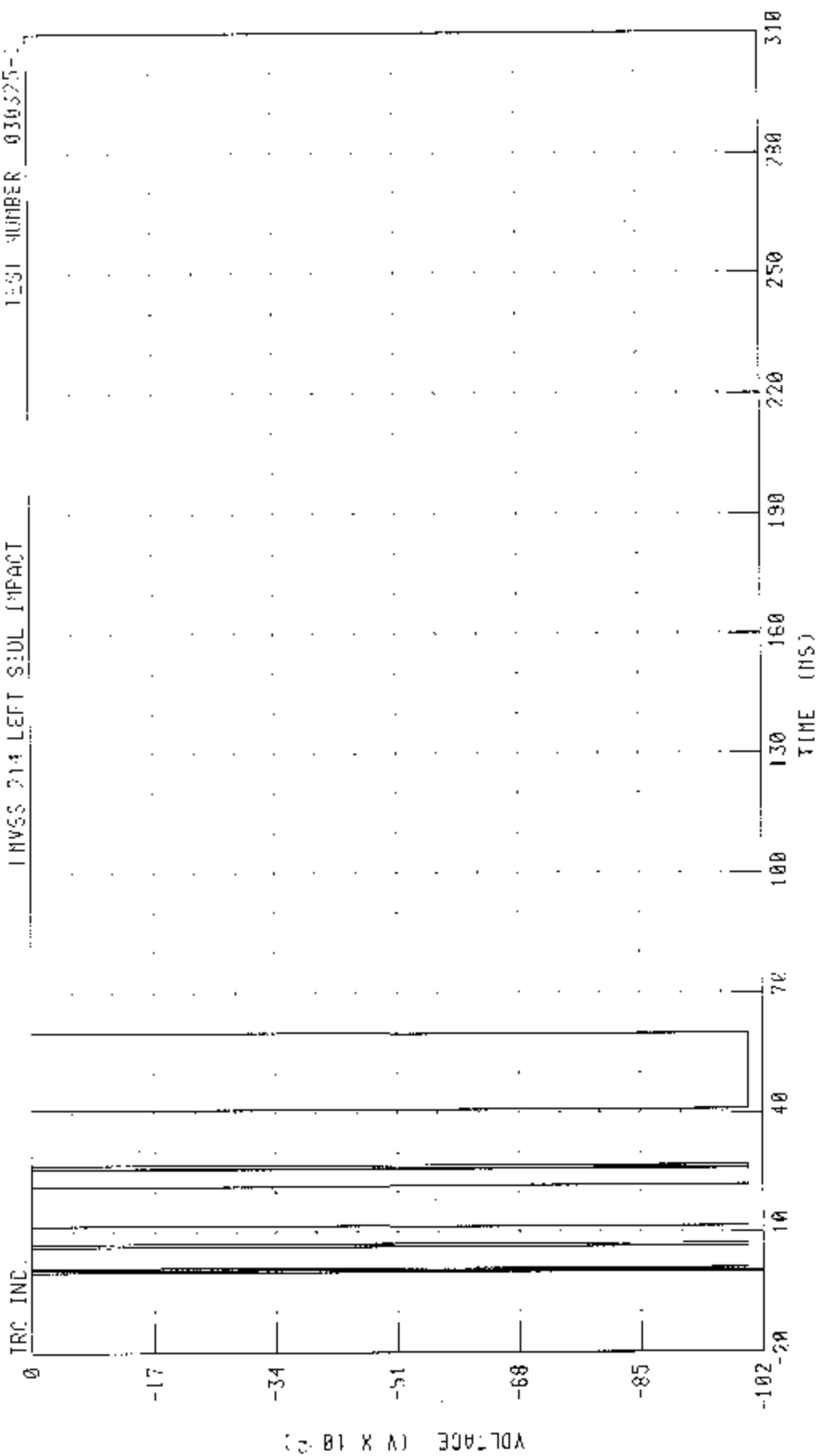
CHANNEL: LRPV1 FILTER: CH UNITS: 180

55/78 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

MOD RIGHT SIDE CONTACT SWITCH

INVS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



PEAK DATA: 0.00 V @ 310.00 NS, 1.00 V @ 0.16 NS

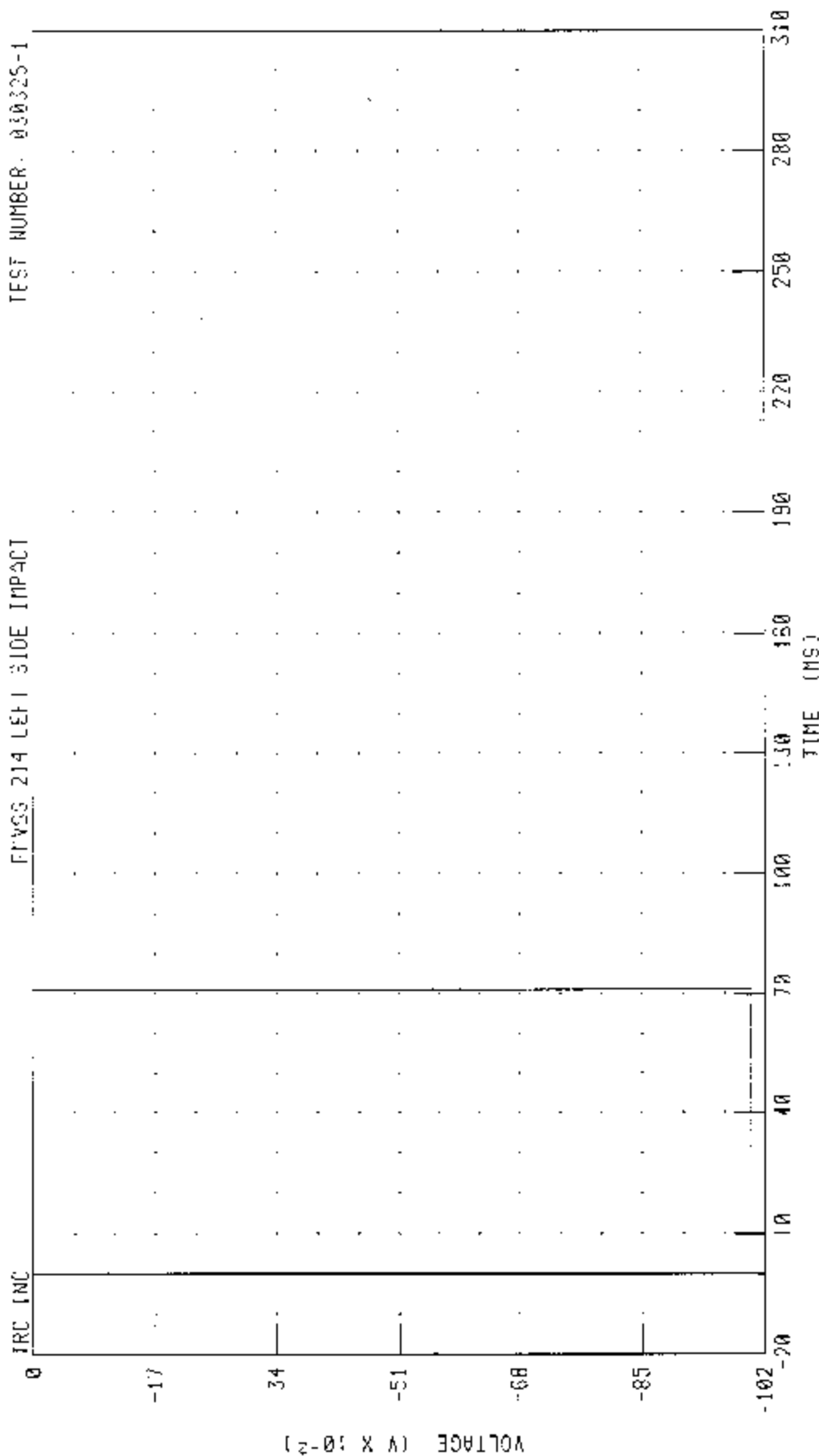
CHANNEL: MODR1 FILTER: CH. CLASS 1020

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

R08 LEFT SIDE CURTAIN SWITCH

FRVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



CHANNEL: MD3L1 FILTER: CH. CLASS 1000

PEAK DATA: 0.00 V @ 310.00 MS, -1.00 V @ 0.24 MS

Driver and Passenger Dummy Instrumentation Plots

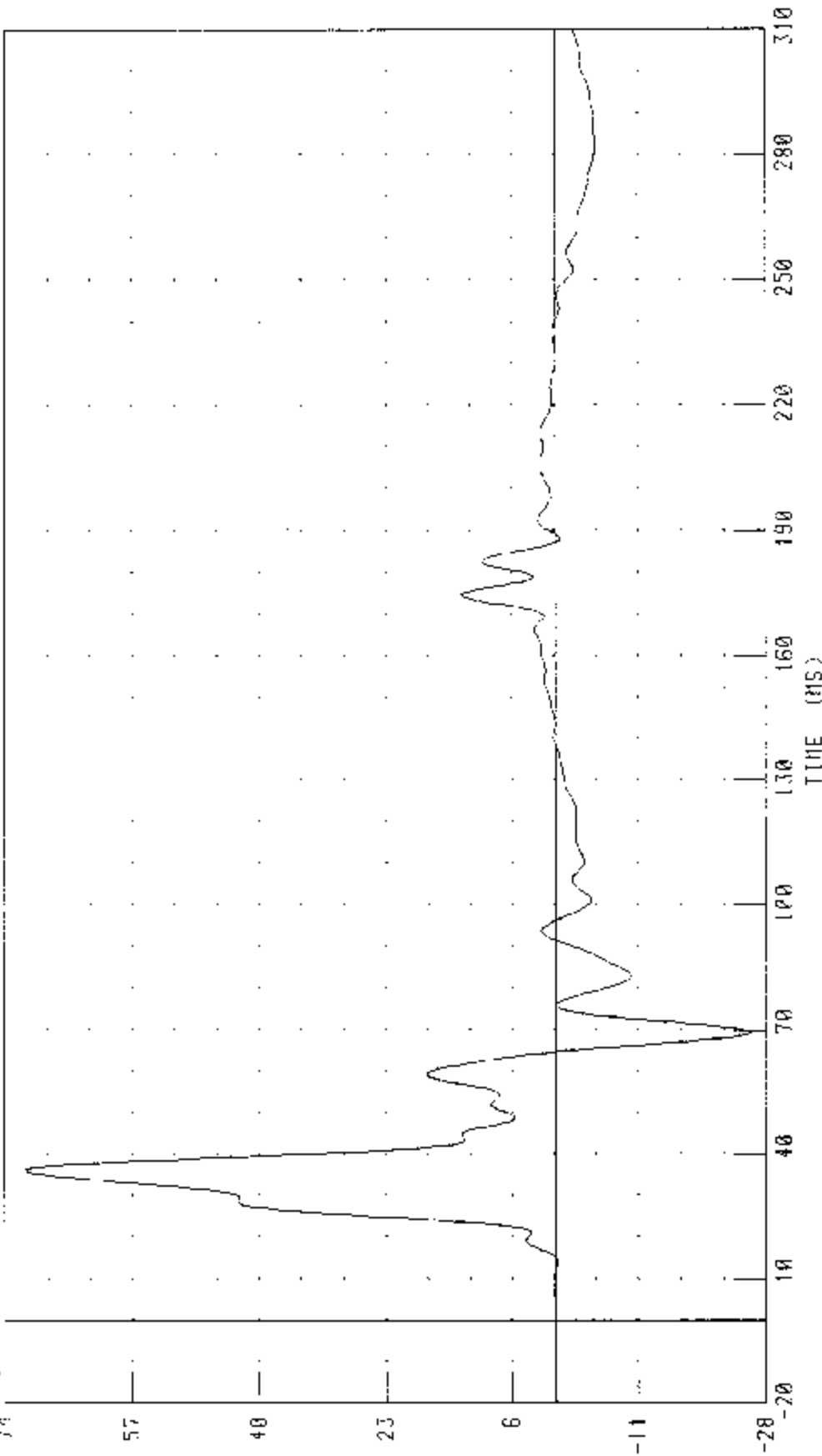
55-23 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER UPPER RIB Y-AXIS ACCELERATION

FNVS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1

TRC INC



CHANNEL: LURVC1 FILTER: FIR 100

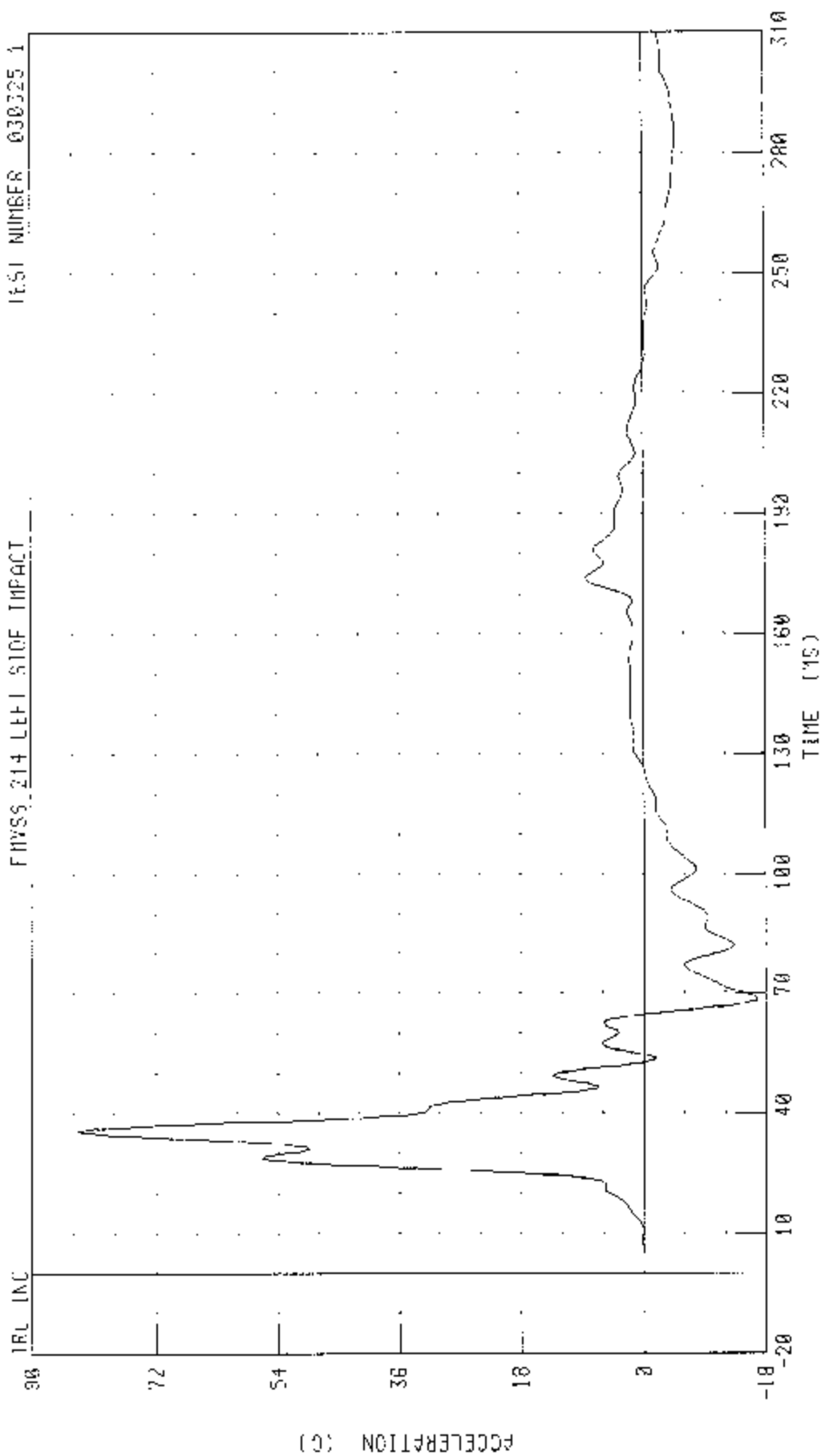
PEAK DATA: 7: 2: 0 0 36.25 MS, -26.14 G @ 69.38 MS

55/20 MPH 90 DEGREE SIDE IMPACT INVOLVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER LOWER RIB Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER 030325-1



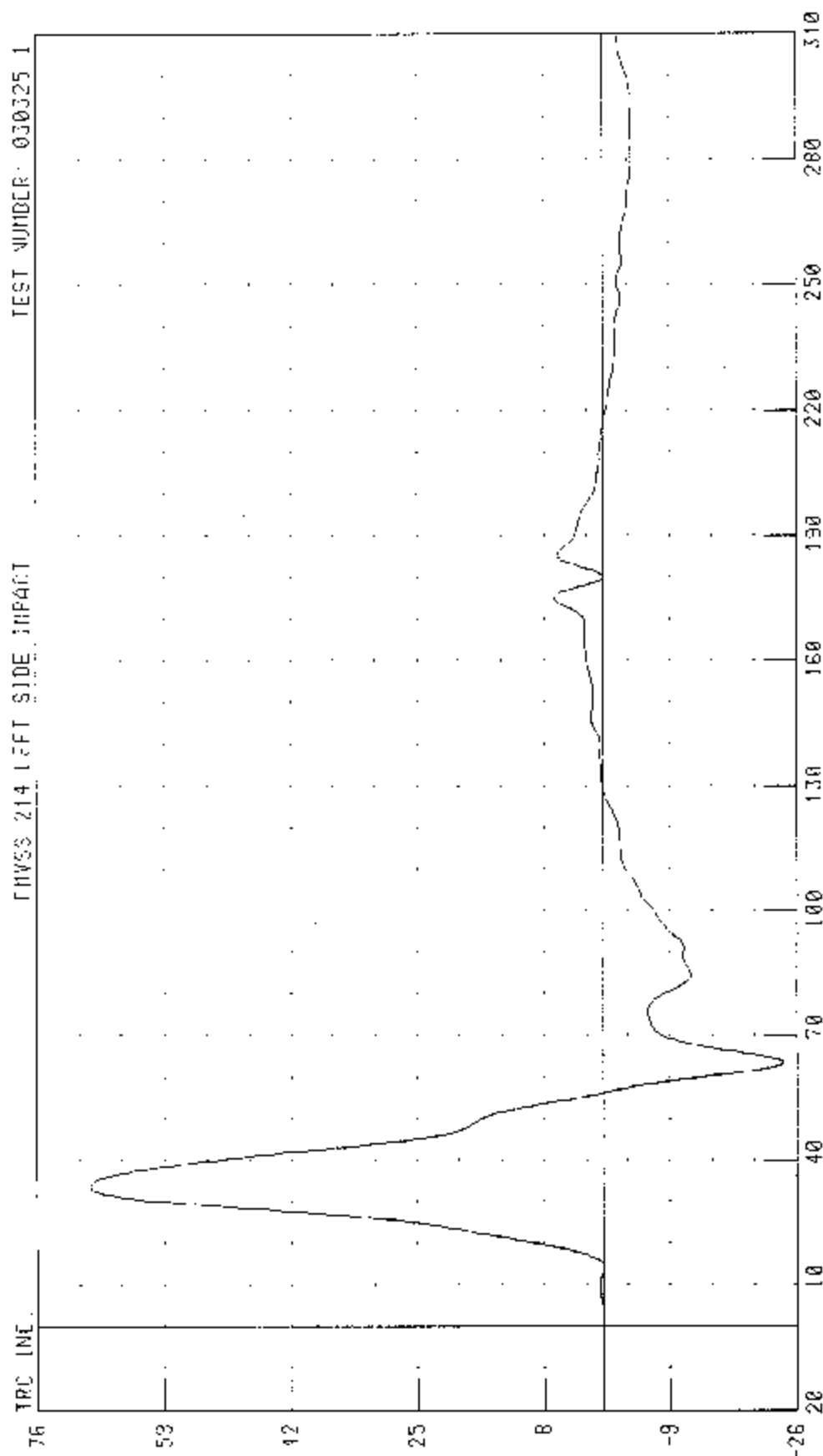
CHANNEL: 112VC3 FILTER: FIR 100

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER LOWER SPINE Y AXIS ACCELERATION

TRUSS 214 LEFT SIDE IMPACT

TEST NUMBER: 030325-1



CHANNEL: T12YC1 FILTER: FIR 100

PEAK DATA: 68.99 g @ 33.75 MS, -24.15 g @ 63.75 MS

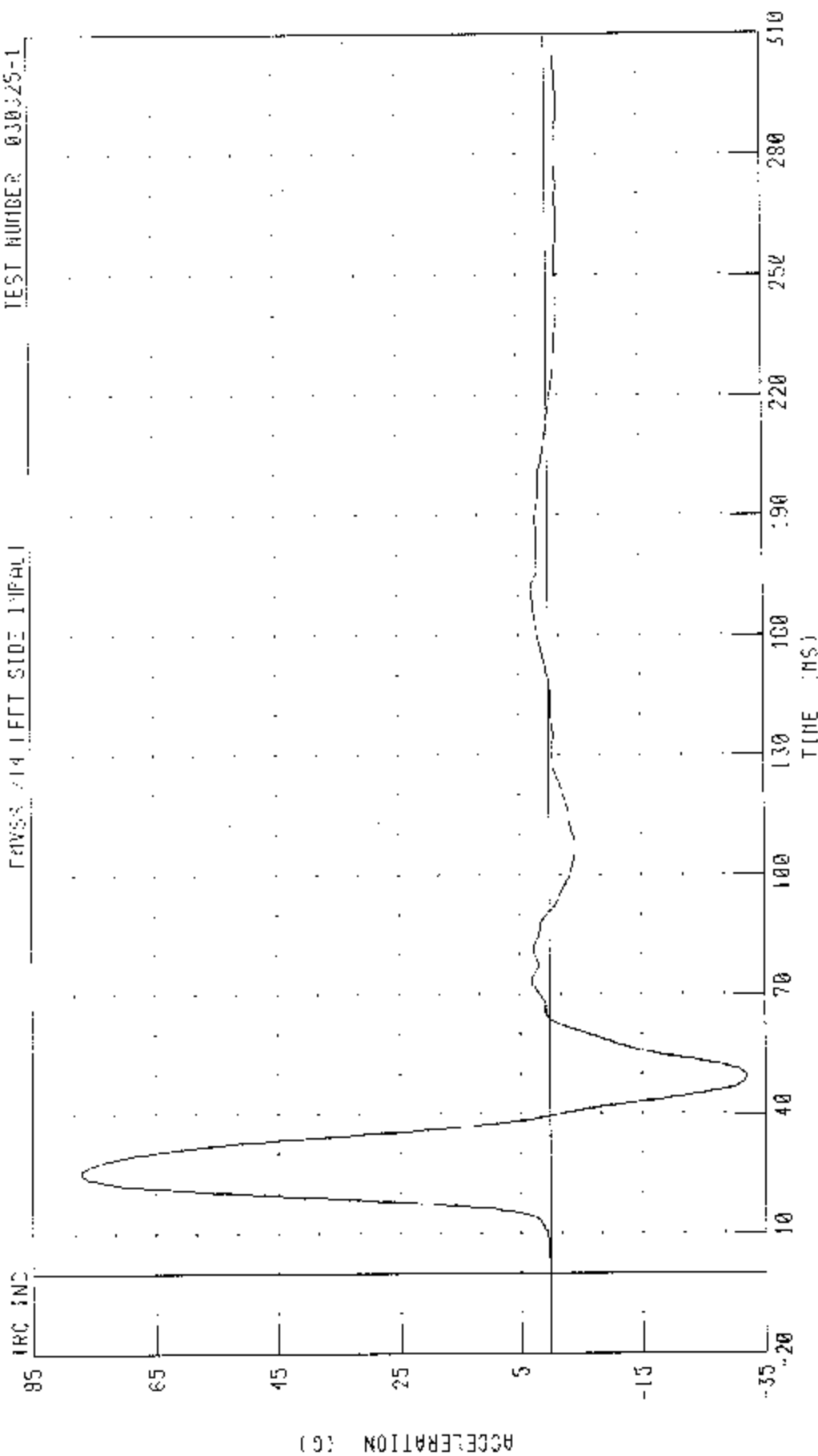
ACCELERATION (g)

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

DRIVER PELVIS Y AXIS ACCELERATION

FAVSS / 14 LEFT SIDE IMPACT

TEST NUMBER 030325-1



PEAK DATA: 77 31 0 25 00 MS, -52.13 G @ 49 27 MS

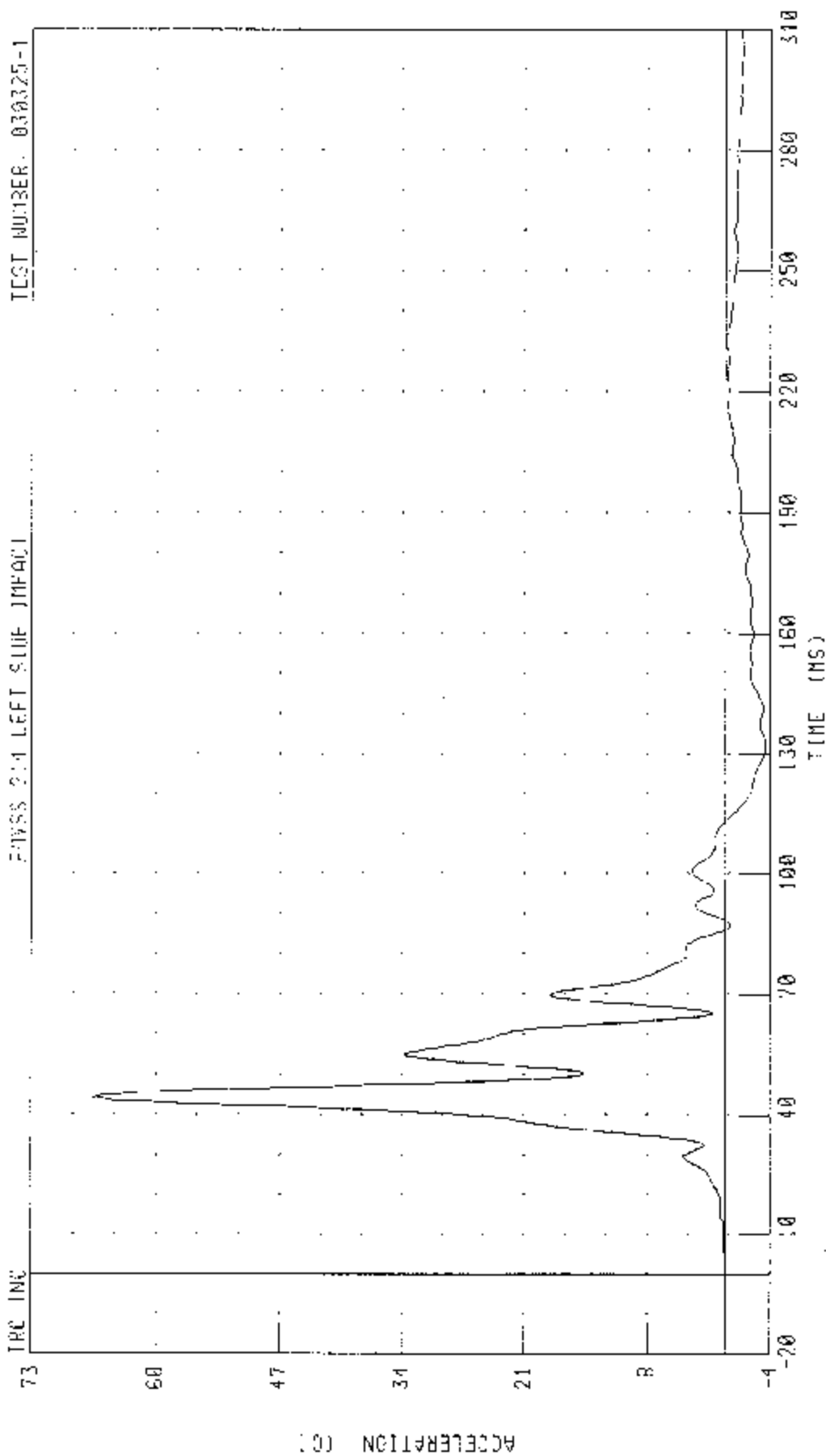
CHANNEL: PEVYC1 FILTER: FIR 100

55.75 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER UPPER RIO Y AXIS ACCELERATION

PHYS 214 LEFT SIDE IMPACT

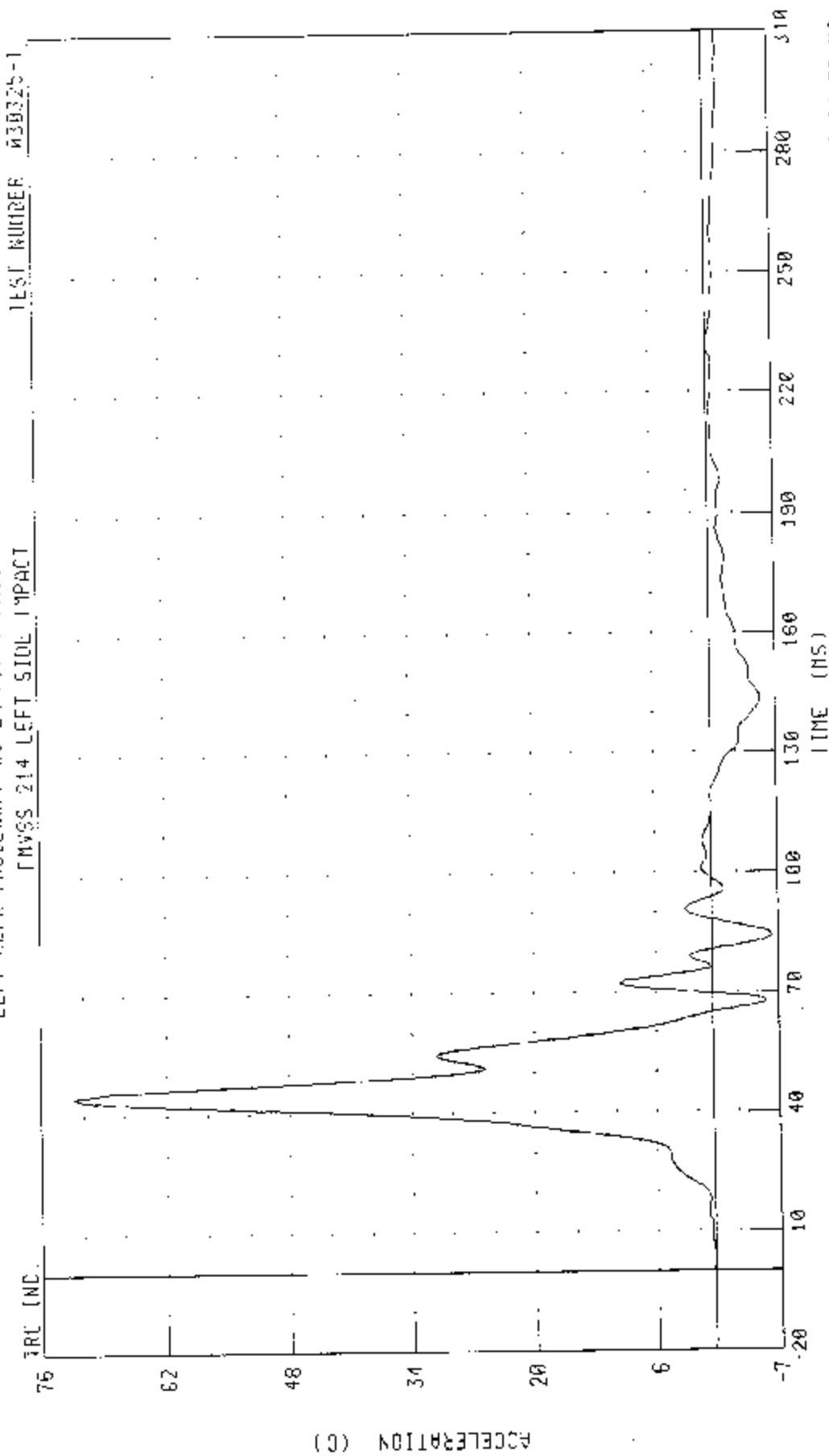
TEST NUMBER: 030325-1



CHANNEL LURYG4 FILTER: FIR 180

PEAK DATA 66.81 G @ 44.38 MS; -4.32 G @ 132.50 MS

05/28 K24 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER LOWER R/R Y AXIS ACCELERATION



CHANNEL LLRYG4 FILTER FIR 100

PEAK DATA: 72.88 G @ 44.38 MS, -6.85 G @ 04.38 MS

ACCELERATION (G)

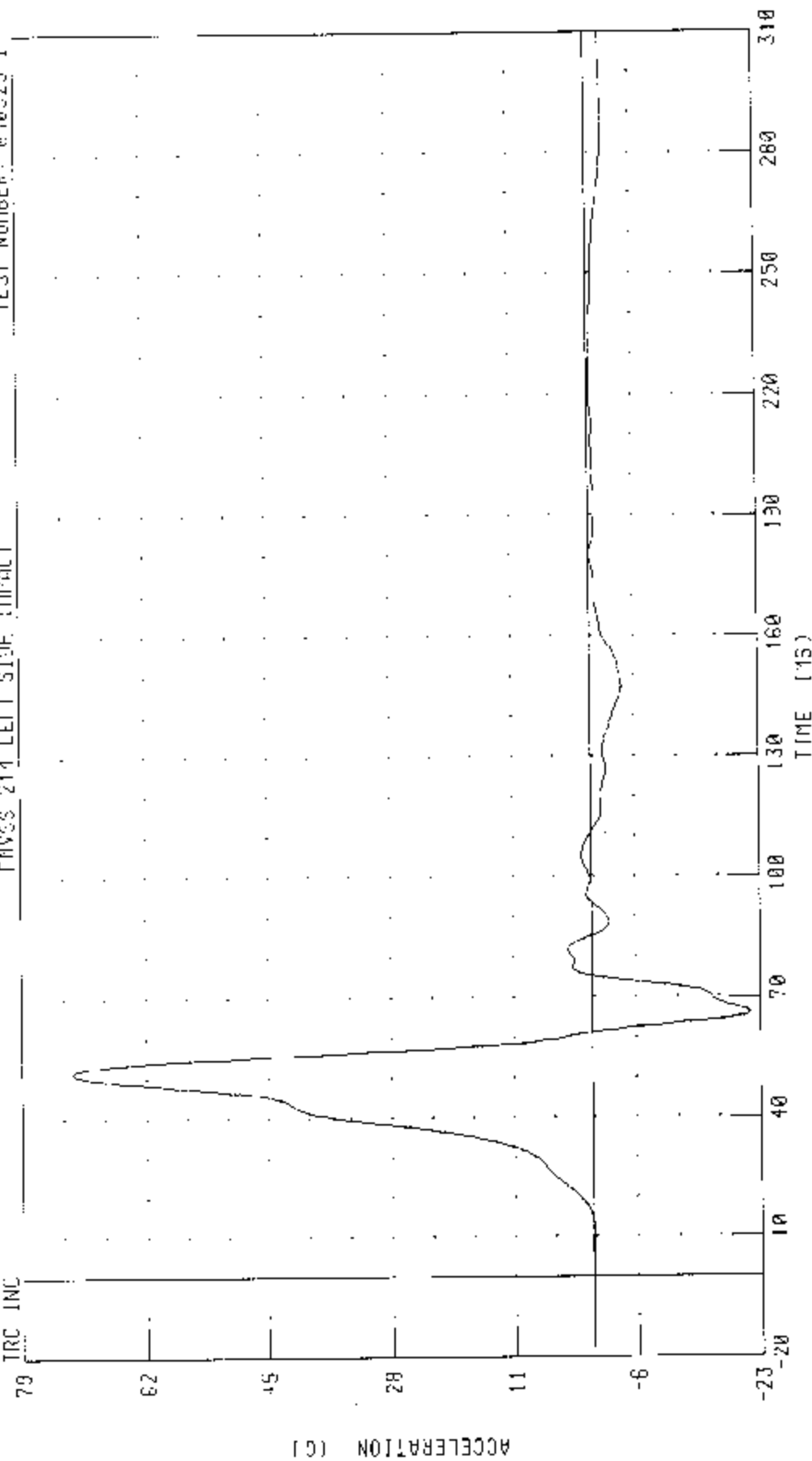
55/28 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION

TEST NUMBER: 030325-1

FMVSS 214 LEFT SIDE IMPACT

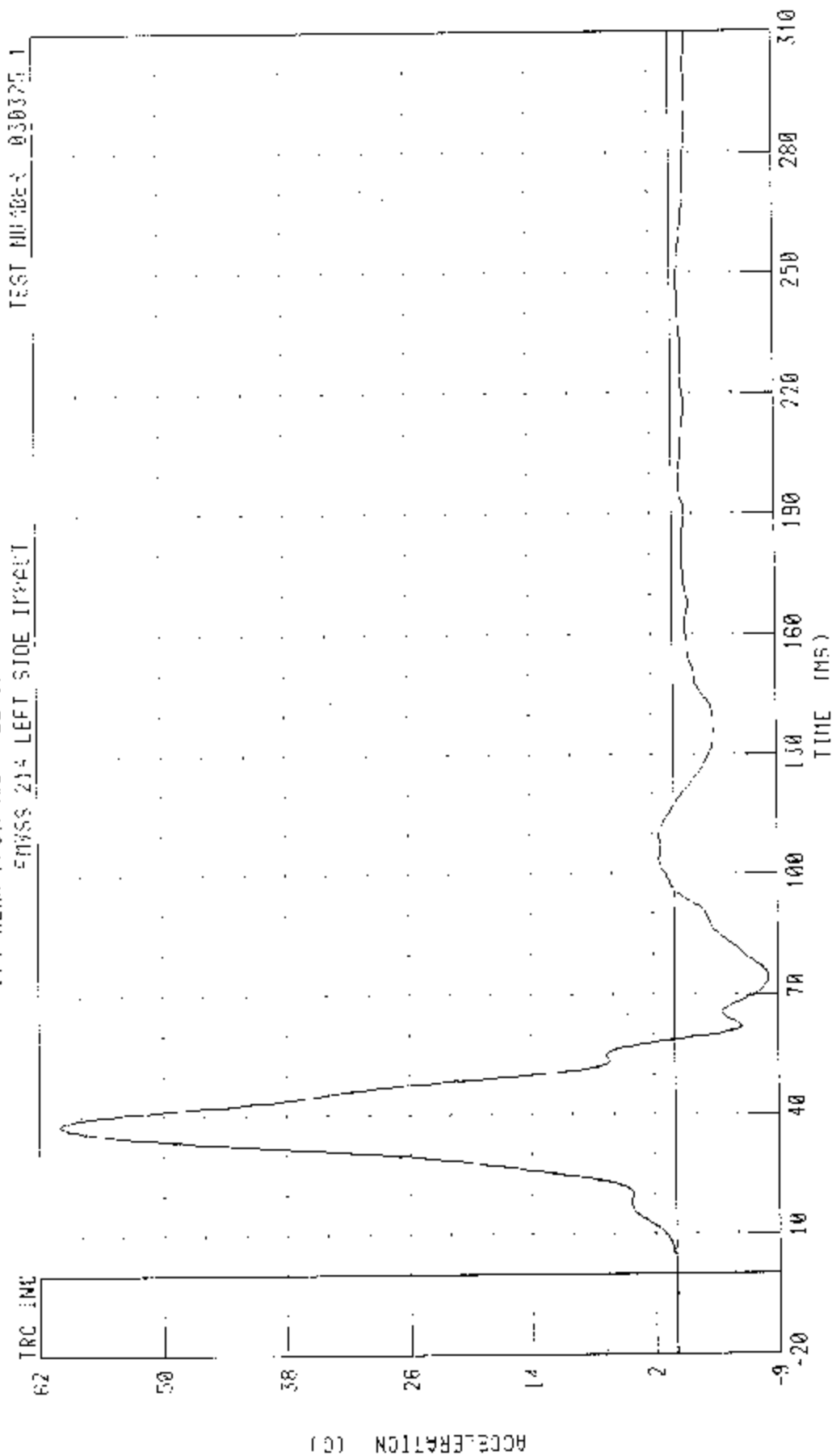
TRC INC



PEAK DATA 72 25 6 9 51 25 MS, 21 71 G 0 66 25 MS

CHANNEL: T12YG4 FILTER FIR 100

55.28 MPH 90° DEGREE SID- IMPACT (MOVING DEFORMABLE BARRIER) (HNDL FFI SIDE OF MAP: HONDA ACCORD
FFT REAR PASSENGER PELVIS Y AXIS ACCELERATION

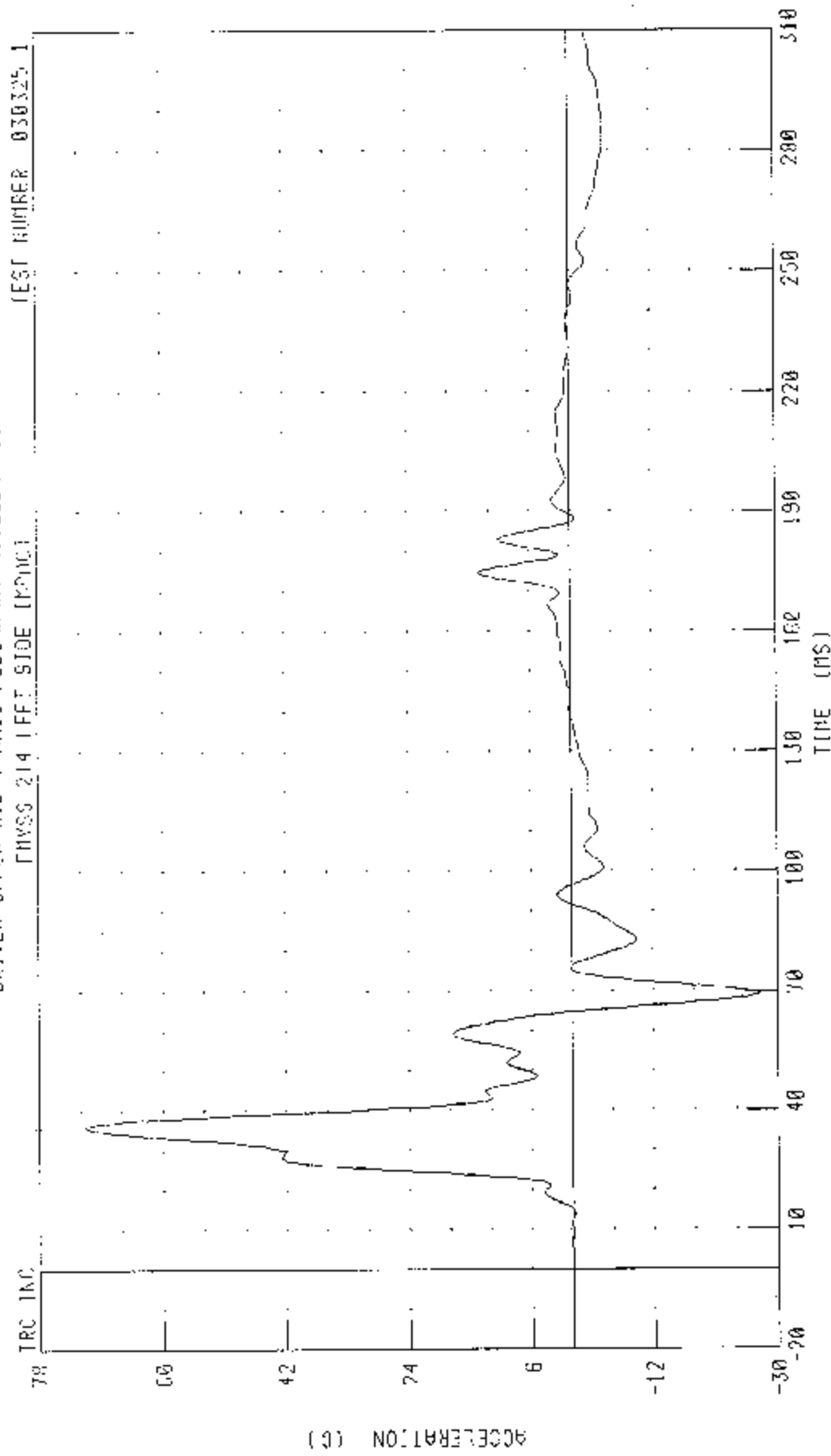


CHANNEL: PEVYG4 FILTER: FIR 100

PEAK DATA: 60.07 G @ 37.50 MS, -9.03 G @ 74.37 MS

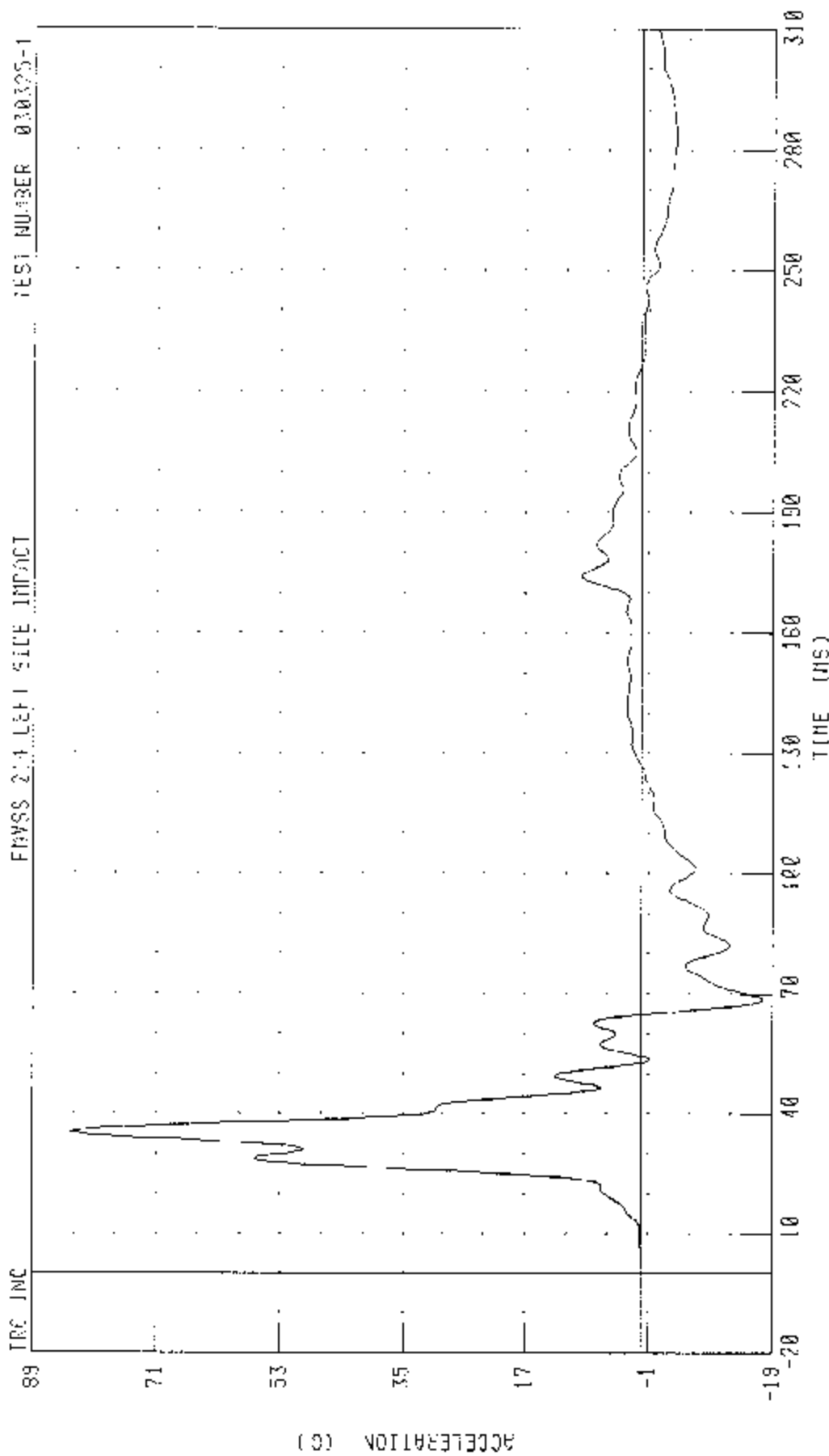
Driver and Passenger Dummy Instrumentation Plots

55/28 KPH 90 DEGREE SIDE IMPACT (NEWCASTLE BARRIER) INTO THE SIDE OF 2003 HUNTER ACCORD
 DRIVER UPPER RIB Y AXIS REDUNDANT ACCELERATION



CHANNEL LURYR1 FILTER FIR 100 PPAK DATA 7) 26 0 0 36.25 MS; -27.44 0 0 60.30 MS

55/20 MPH 90 DEGREE SIDE IMPACT INVOLVING DEFLECTABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
 DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

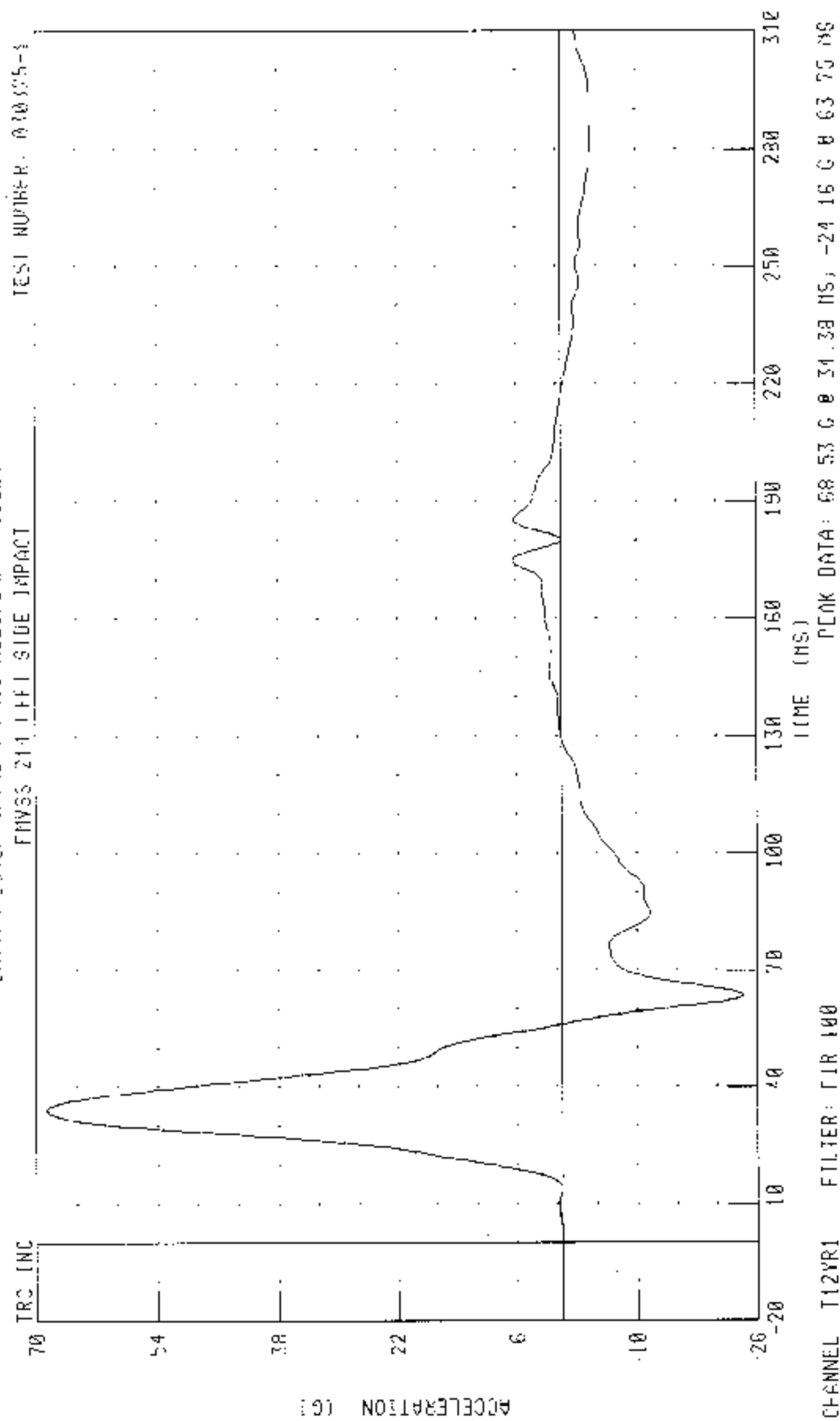


CHANNEL LLRYR1 FILTER: FIR 100

PEAK DATA 83.56 G @ 35.63 MS, -17.62 G @ 68.75 MS

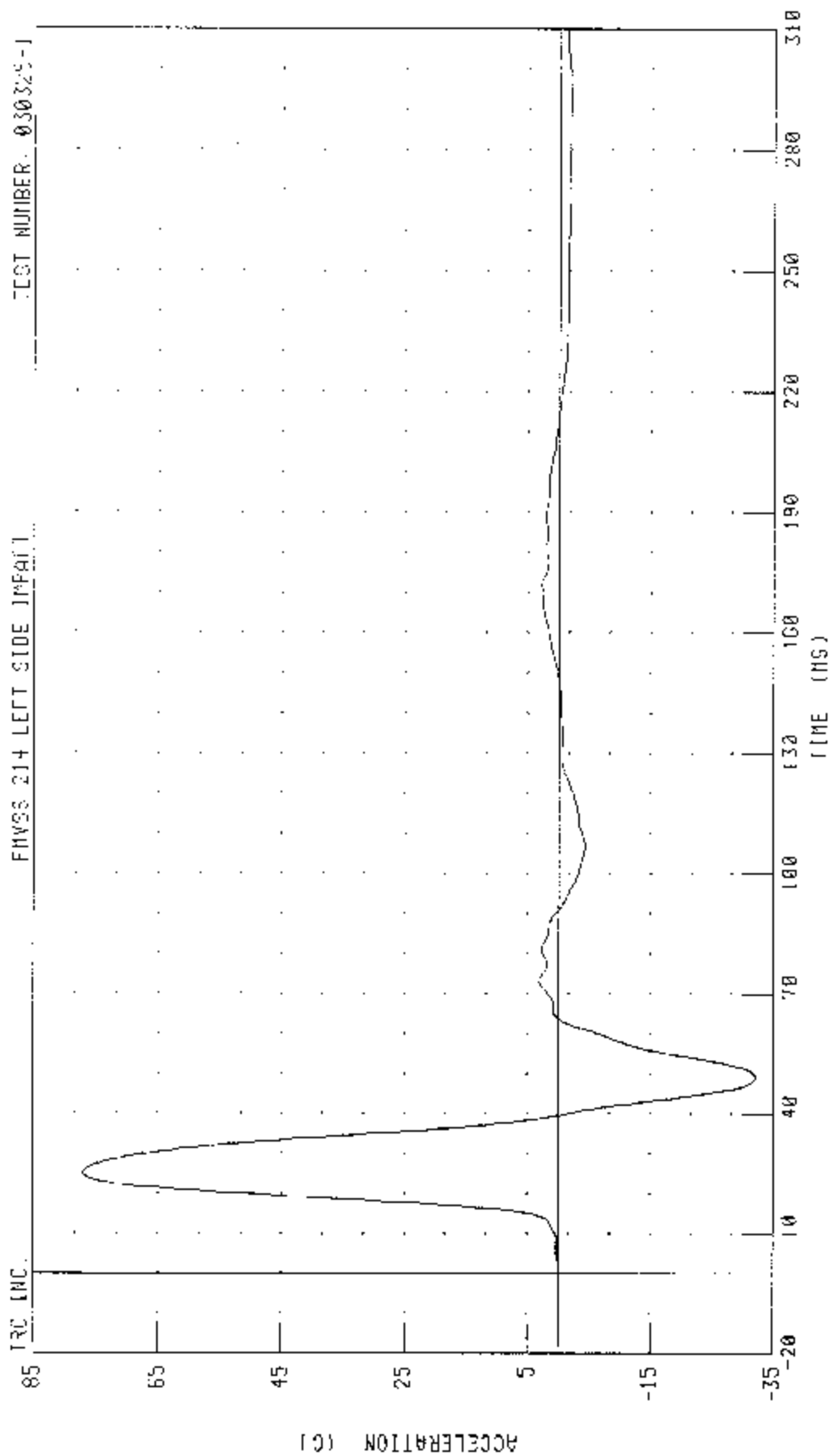
55/28 KPII 90 FFCRFF 511H IMPACT :MOVING DETONABLE ENERGY) INIT 13FT SIDE 07 2803 H0150H 000030

DRIVER LOWER SPIKE Y AXIS RECUMGANT ACCELERATION



55.28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

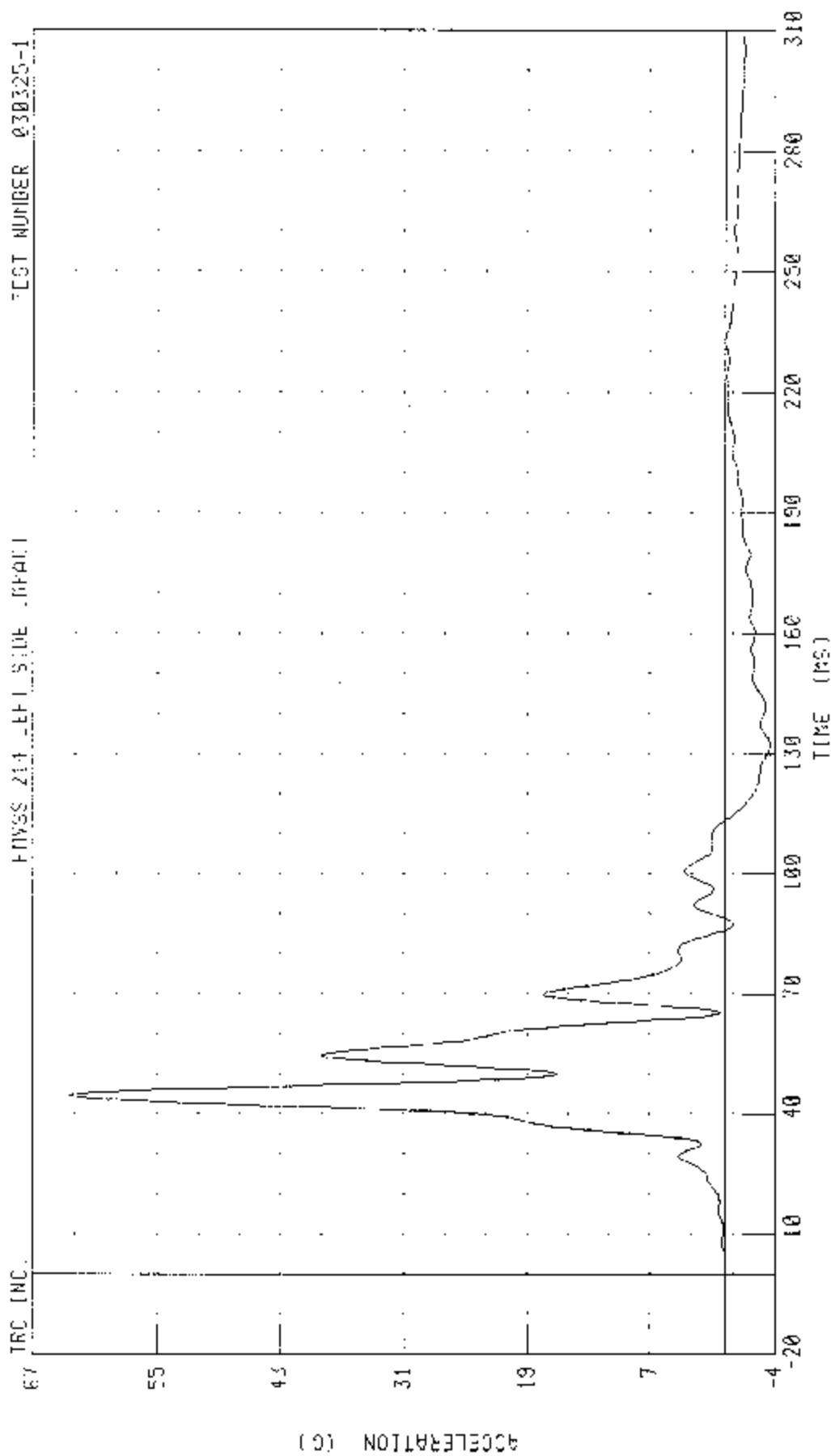
DRIVER PELVIS Y-AXIS REINFORCEMENT ACCELERATION



CHANNEL: PEVYR1 FILTER: FIR100

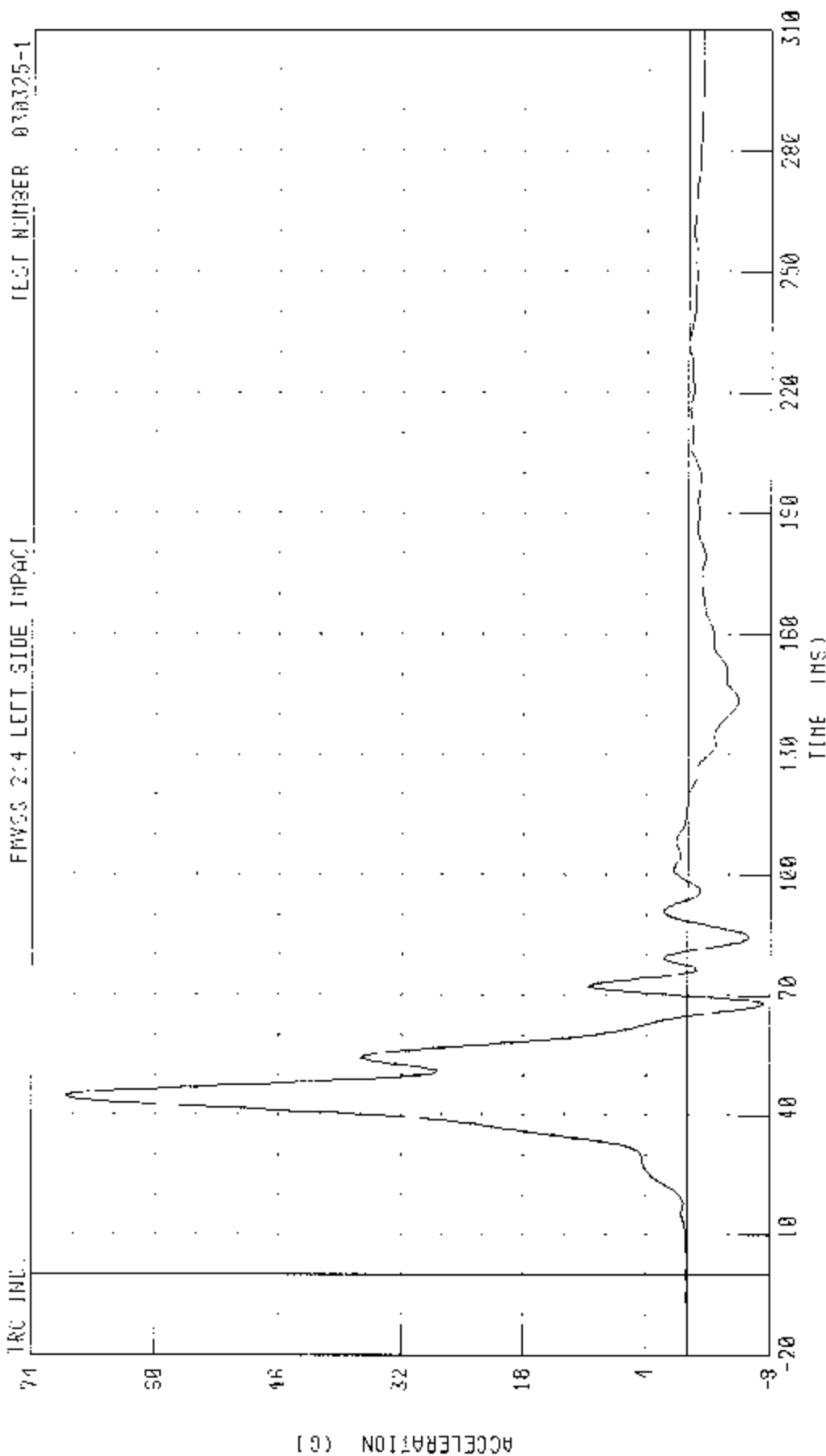
PEAK DATA: 77.28 G @ 25.00 MS; -32.13 G @ 49.37 MS

55/28 KPH 90 DEGREE SIDE IMPACT INVOLVING DEFORMABLE BARRIER; INTO LEFT SIDE OF 2003 HONDA ACCORD
 LEFT REAR PASSENGER UPPER RIB X-AXIS REBOUNDING ACCELERATION



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD

LEFT REAR PASSENGER LOWER RIB Y AXIS REQUINTEMI ACCELERATION



CHANNEL LLRVR4 FILTER: FIR 100

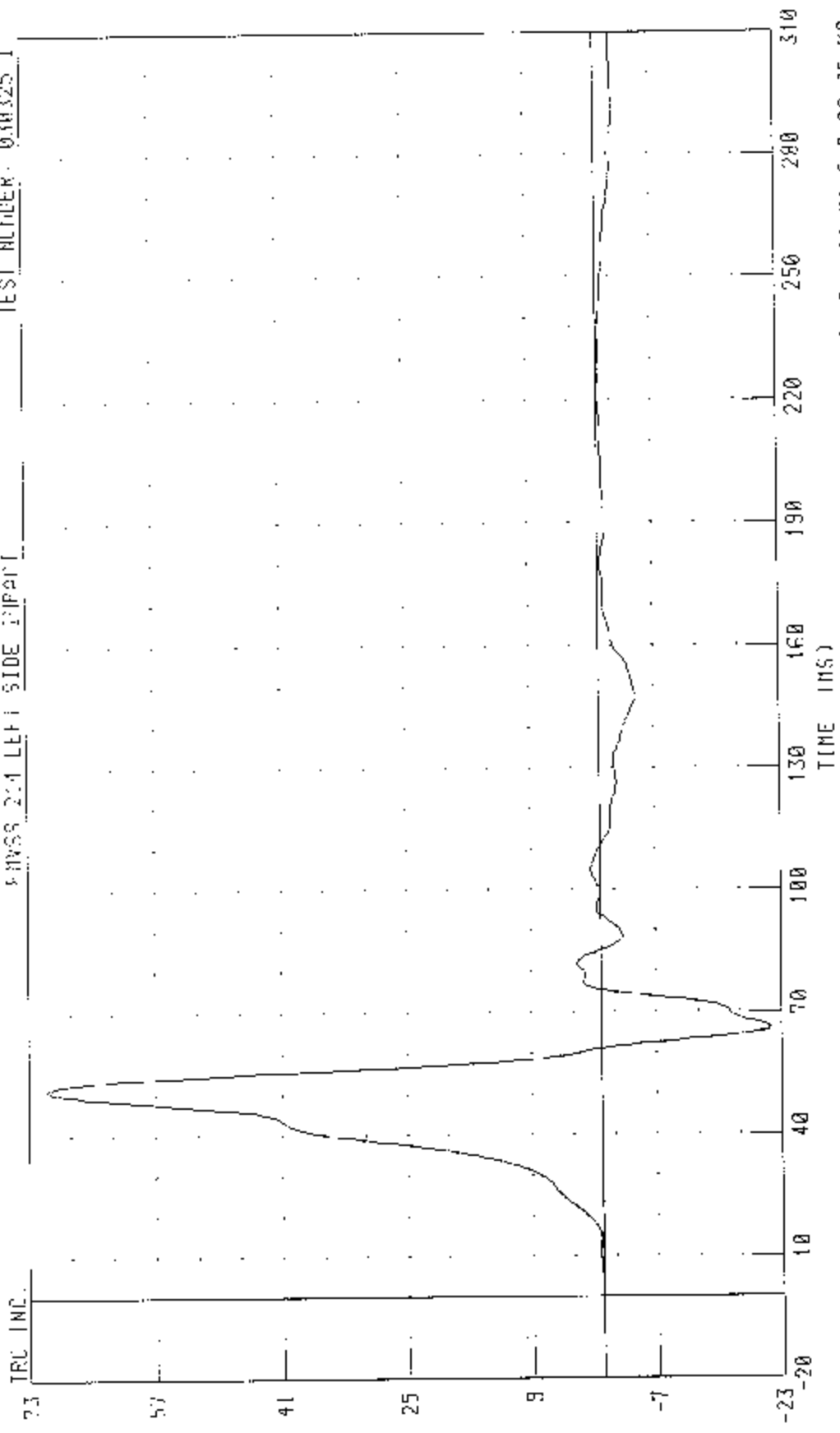
PEAK DATA 70 75 G @ 44.38 MS, -8.57 G @ 60.13 MS

55/20 MPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 FORDA ACCORD

LEFT REAR PASSENGER LOWER SPINE Y-Axis REDUNDANT ACCELERATION

TEST NUMBER: 030325-1

PHYS 214 LEFT SIDE IMPACT

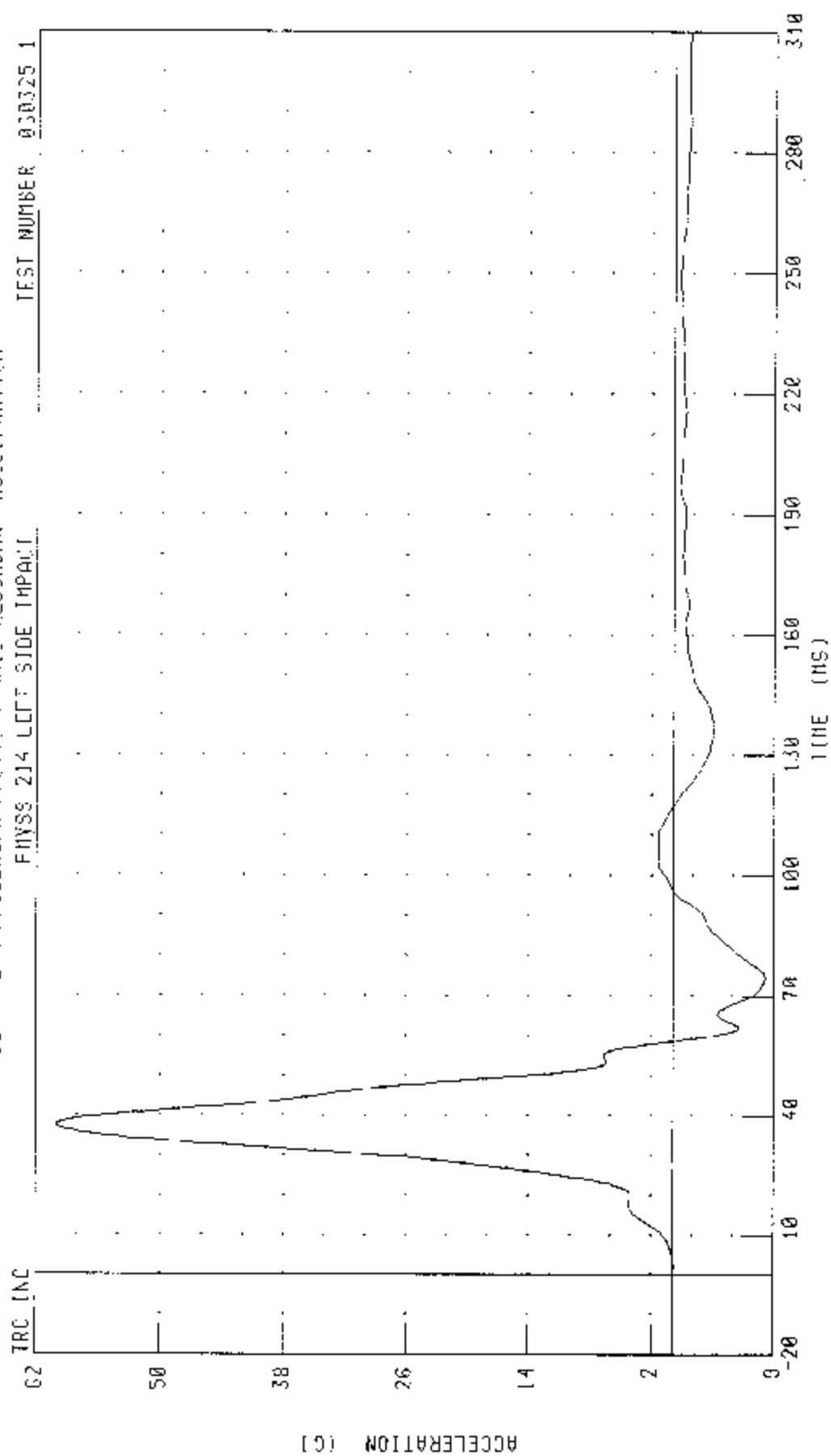


PEAK DATA: 70.69 G @ 51.25 MS; -21.71 G @ 66.25 MS

CHANNEL: T12YR4 FILTER: FIR 100

ACCELERATION (G)

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2003 HONDA ACCORD
LEFT REAR PASSENGER SEAT Y-AXIS REDUNDANT ACCELERATION



CHANNEL: PEVYR4 FILTER FIR 100

PEAK DATA: 60.21 G @ 37.50 MS, 0.96 G @ 74.37 MS

Appendix C

SID Configuration and Performance Verification Data

Summary
SID Pre-Test and Post-Test Calibration
Configured For Left Side Impact

Date: March 14 - April 3, 2003

TRC Inc. Test Number: 066C05/C06 & 065C05/C06

Laboratory Technician: Jack Willeke

Test Parameter	Specification	SID 066		SID 065	
		Pre-Test	Post-Test	Pre-Test	Post-Test
SH - Seated Height (mm)	889-909	899	901	899	897
RH - Rib Height (mm)	502-520	508	507	512	511
HP - Hip Pivot Height (mm)	99 ref	99.1	99.1	99.1	99.1
RD - Rib from Back Line (mm)	229-241	235	236	237	236
KH - Knee Pivot from Back Line (mm)	511-526	519	518	513	514
KV - Knee Pivot to Floor (mm)	490-505	497	499	499	497
HW - Hip Width (mm)	356-391	387	387	372	373
Thorax Impacts					
Temperature (°C)	18.9-25.5	21.7	21.7	21.7	21.7
Relative Humidity (%)	10-70	44	44	44	47
Probe Speed (m/s)	4.27-4.33	4.28	4.26	4.28	4.30
Upper Rib (g's)	37-46	42.5	40.6	40.7	40.9
Lower Rib (g's)	37-46	43.1	42.9	39.8	38.6
Lower Spine (g's)	15-22	21.0	20.2	19.4	19.2
Pelvis Impacts					
Temperature (°C)	18.9-25.5	21.7	21.7	21.7	21.7
Relative Humidity (%)	10-70	44	44	44	47
Probe Speed (m/s)	4.27-4.33	4.29	4.28	4.28	4.30
Pelvis (g's)	40-60	50.9	53.2	52.1	56.3

Calibration Test Results

Pre-Test

SID-HIII: 066

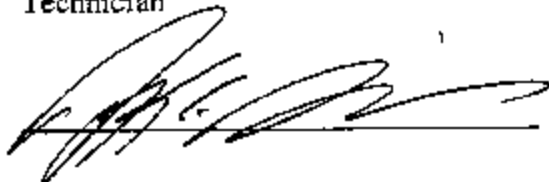
Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time (tested on February 3, 2002, for a previous calibration series).
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.

Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No. 066 Calibration No. 05

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	899 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	508 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	235 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	519 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	497 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	387 mm	Yes
Top Rib Width From CVL	RW-1	165.1 - 180.3 mm	172 mm	Yes
Bottom Rib Width From CVL	RW-2	165.1 - 180.3 mm	171 mm	Yes
Difference Between Top & Bottom Rib Width from CVL		≤ 2.5 mm	1.0 mm	Yes

Technician



Approved



TRE

TRANSPORTATION RESEARCH CENTER INC.

LATERAL HEAD DROP TEST

HYBRIDIII SID DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

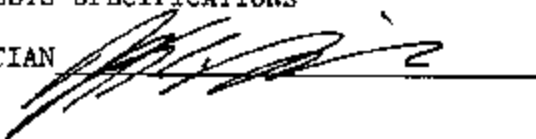
TRC INC.

TEST NO. HDL06605

H3/SID SN066 HEAD DROP CAL05

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6 deg. C	21.67 deg. C
RELATIVE HUMIDITY	10 - 70 %	30.00 %
PEAK RESULTANT ACCELERATION	120 - 150 G	148.88 G
PEAK LONGITUDINAL ACCELERATION	15 G MAX	-13.16 G
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 031403.1038;1

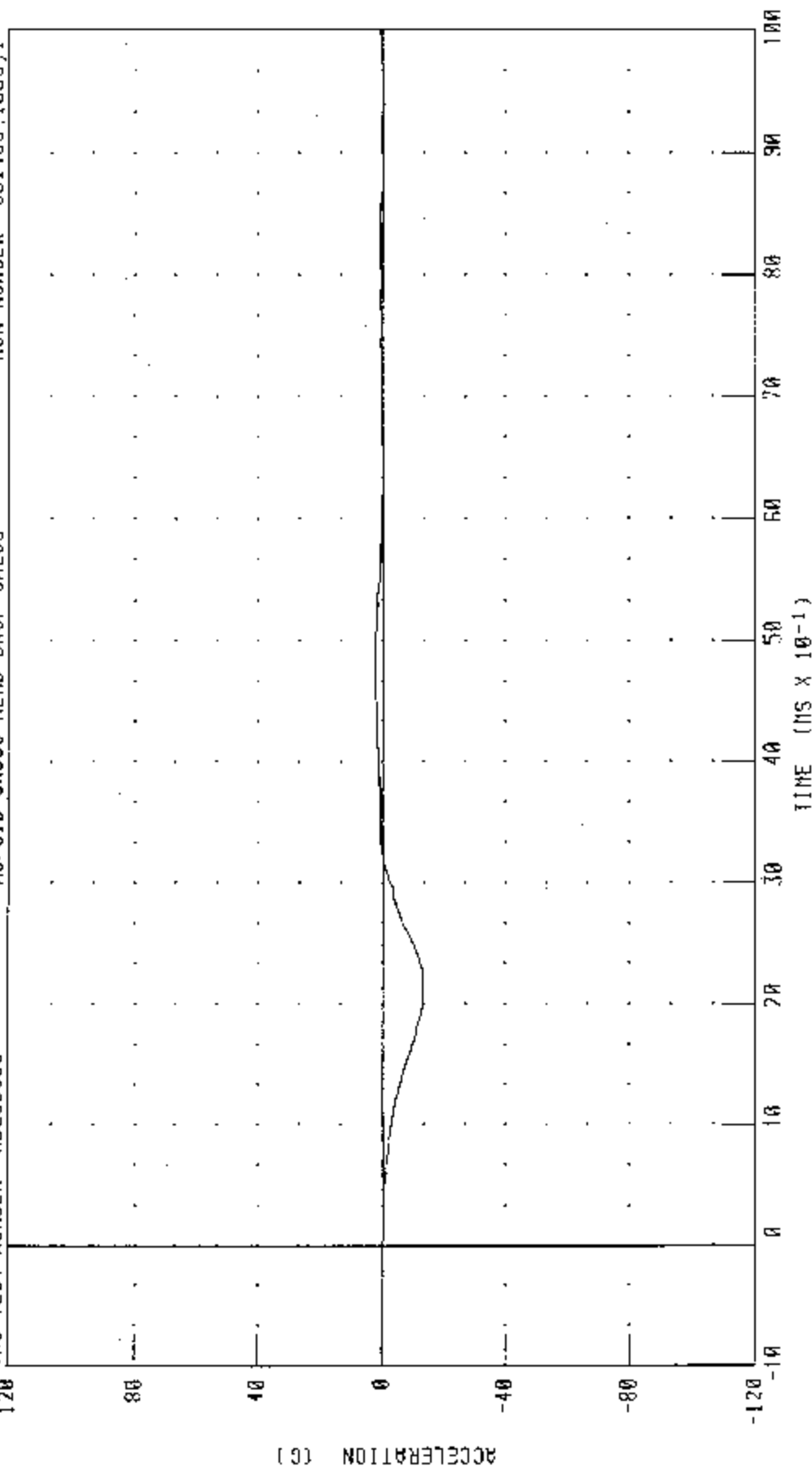
810SID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION X AXIS

TRC TEST NUMBER: HDL06605

H3/SID SN066 HEAD DROP CAL05

RUN NUMBER: 031403.1039;1



CHANNEL: HEDXC FILTER: CH. CLASS 1000

PEAK DATA: 2.34 G @ 4.64 MS, -13.16 G @ 2.16 MS

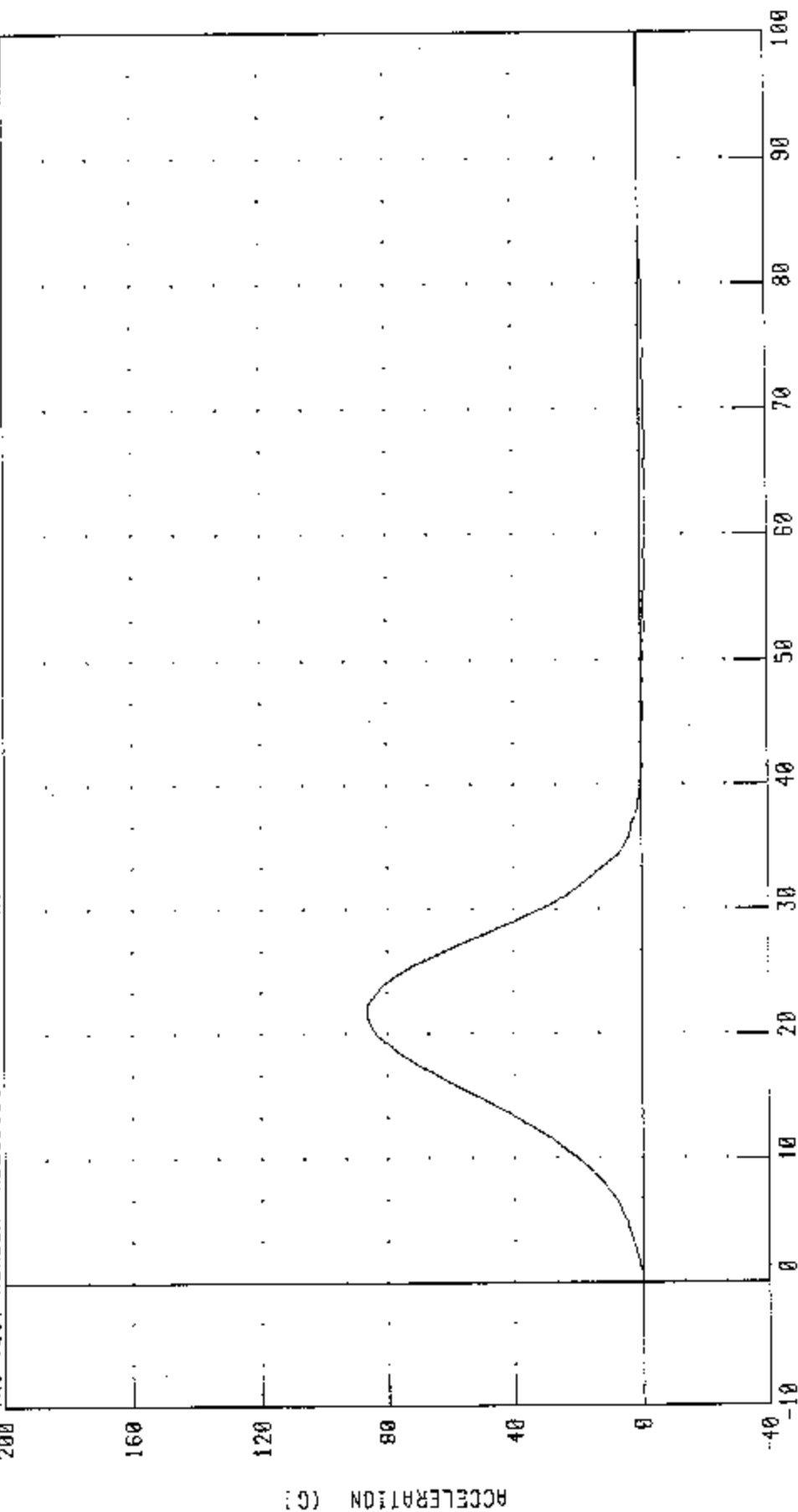
BIOSED DUNNY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Y AXIS

TRC TEST NUMBER: 11DL86605

H3/SID 5N066 HEAD DROP CAL05

RUN NUMBER: 031403.1039.1



PEAK DATA: 86.32 G @ 2.16 MS

CHANNEL: HEADY0 FILTER: CH. CLASS 1000

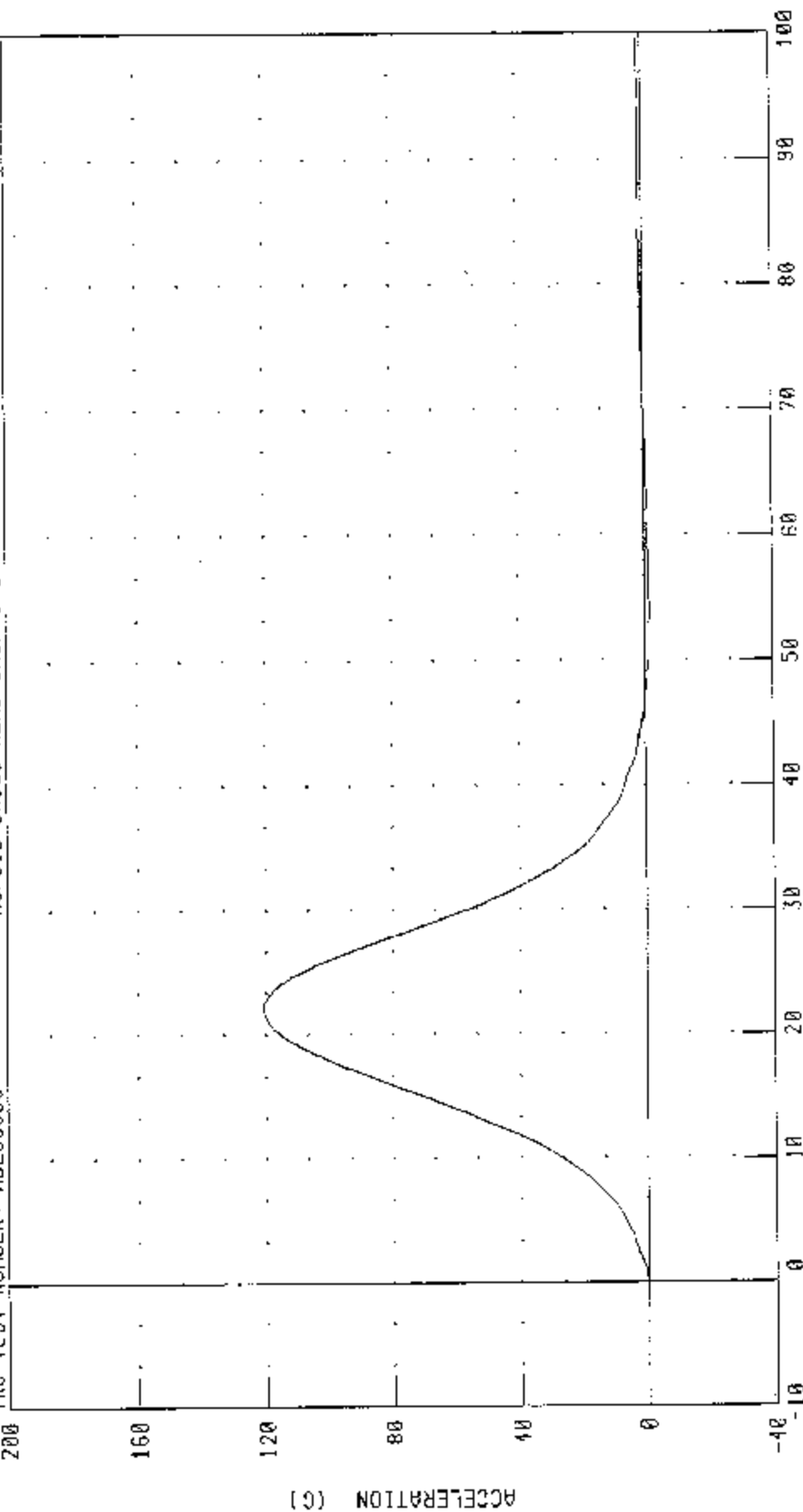
RT0510 DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Z AXIS

RT0510 SN066 HEAD DROP CAL05

TRC TEST NUMBER: HDL06605

RUN NUMBER: 031403 1039,1



PEAK DATA: 120 70 G B 2 24 MS; -; 80 C 0 5 36 MS

CHANNEL: HD070 FILTER: CH CLASS 1000

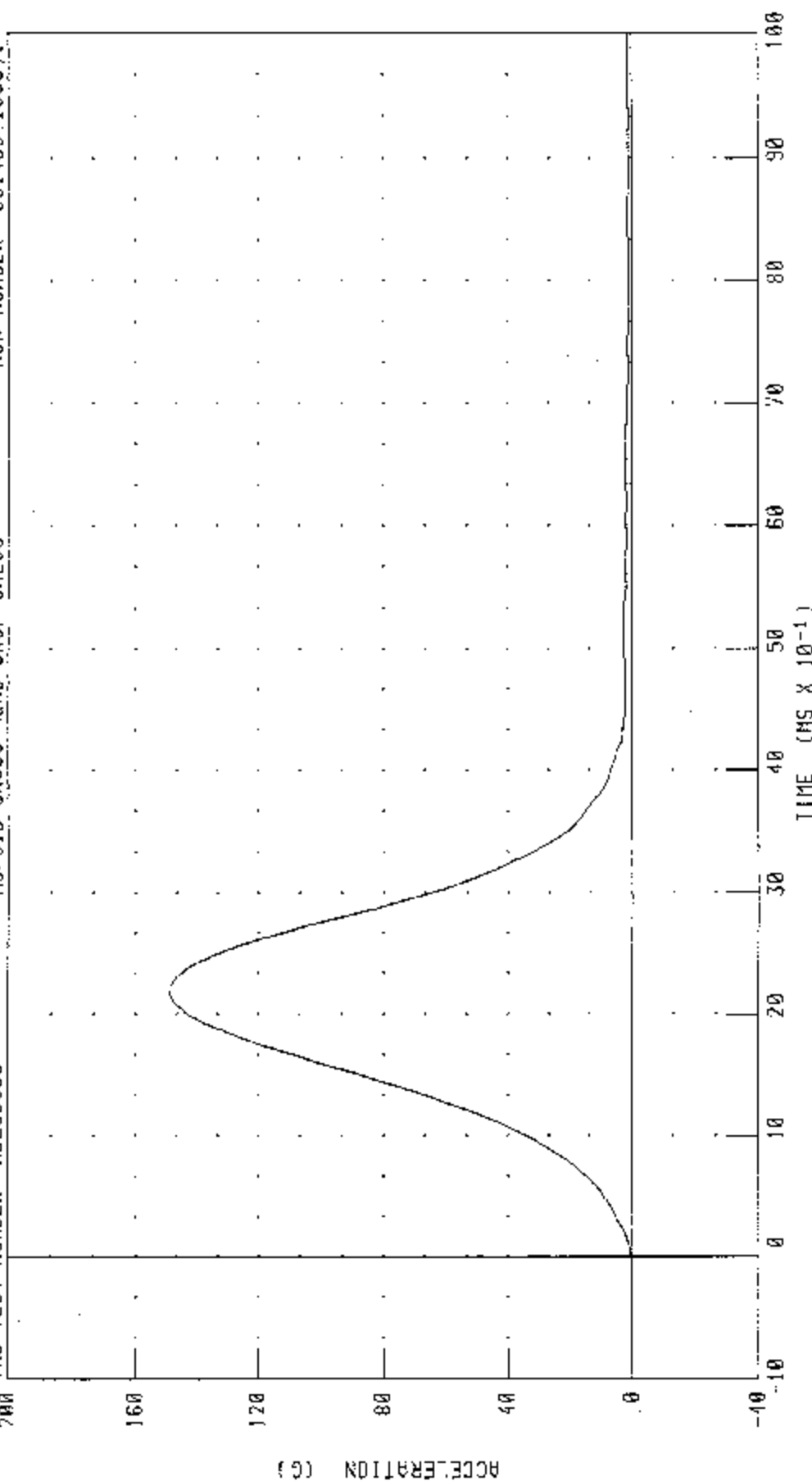
BIOSID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD RESULTANT ACCELERATION

TRC TEST NUMBER: H0L06605

H3/SID SN066 HEAD DROP CAL05

RUN NUMBER: 031403.1039.1



CHANNEL: HEDRG FILTER CH CLASS 1000

PEAK DATA: 148.88 G @ 2.16 MS; 0.04 G @ -0.32 MS

TRANSPORTATION RESEARCH CENTER INC.

LATERAL NECK TEST

HYBRIDIII SID DUMMY

17-MAR-03

LEFT SIDE CONFIGURATION

TRC INC.

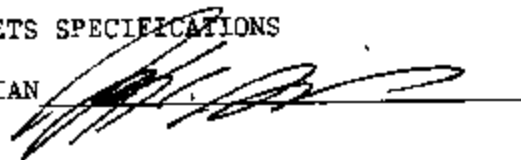
TEST NO. NFL06605H

H3/SID SNO66 NECK LEFT CAL05

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	20.6 - 22.2 deg. C	21.67 deg. C
RELATIVE HUMIDITY	10 - 70 %	44.00 %
IMPACT VELOCITY	6.89 - 7.13 M/S	6.99 M/S
INTEGRATED VELOCITY	10 MS 1.96 - 2.55 M/S	2.46 M/S
	20 MS 4.12 - 5.10 M/S	4.79 M/S
	30 MS 5.73 - 7.01 M/S	6.77 M/S
	40 - 70 MS 6.27 - 7.64 M/S	7.10- 7.19 M/S
MAXIMUM MIDSAGGITAL PLANE ROTATION	67 - 82 deg.	69.88 deg.
ROTATION ANGLE DECAY TIME FROM PEAK TO ZERO	58 - 67 MS	63.92 MS
MAXIMUM MOMENT ABOUT OCCIPITAL CONDYLE	73 - 88 NM	73.50 NM
POSITIVE MOMENT DECAY TIME FROM PEAK TO ZERO	49 - 64 MS	58.80 MS
TIME OF MAXIMUM ROTATION AFTER MAXIMUM MOMENT	2 - 16 MS	9.44 MS

TEST MEETS SPECIFICATIONS

TECHNICIAN



RUN NUMBER: 031703.1349;1

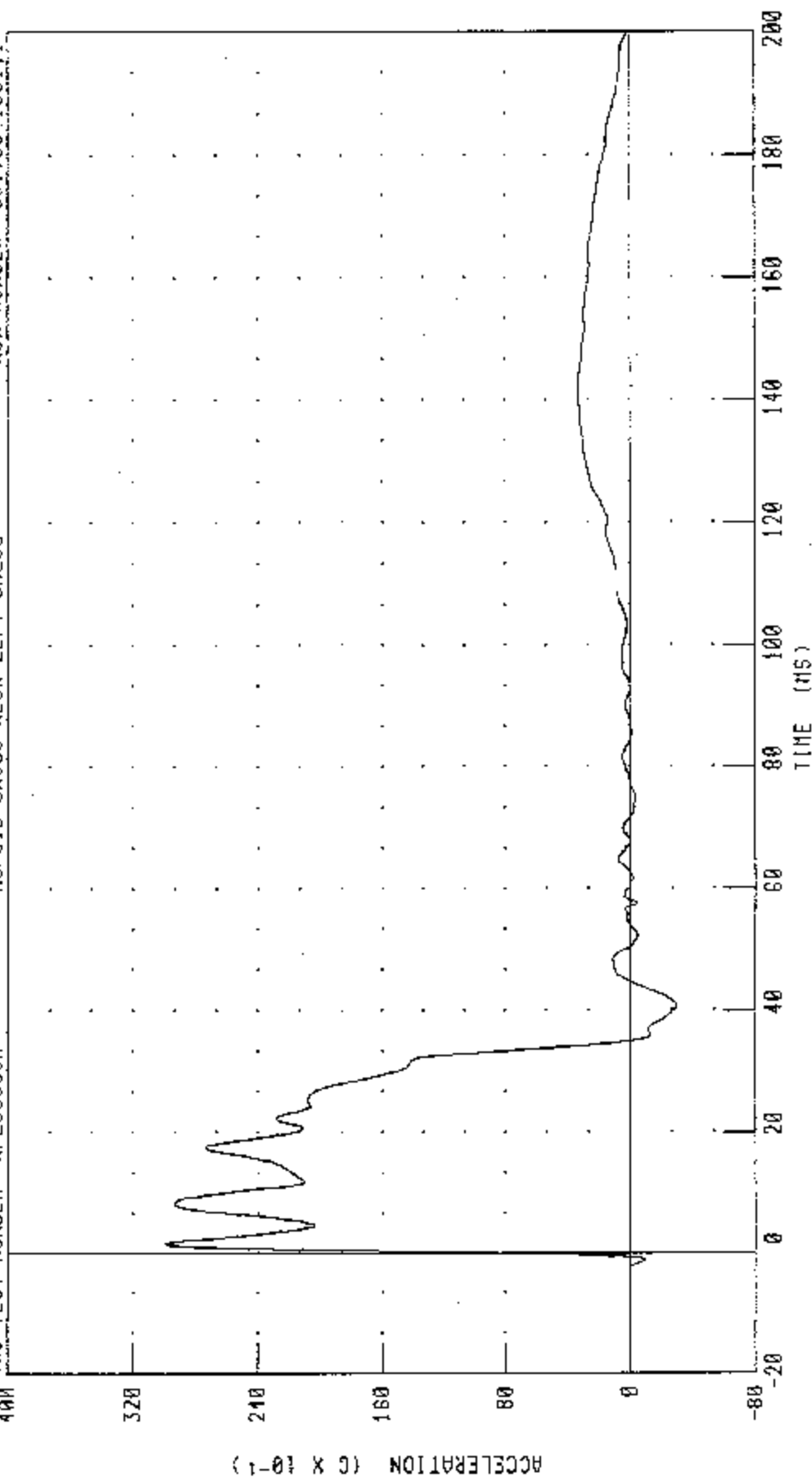
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

PENDULUM DECELERATION

TRC TEST NUMBER: NFL06605H

H3/S10 SN066 NECK LEFT CAL05

RUN NUMBER: 031703.1351.1



CHANNEL: PENXC FILTER: CH CLASS 180

PEAK DATA: 29 90 C @ 1 60 MS, -2.93 C @ 40 80 MS

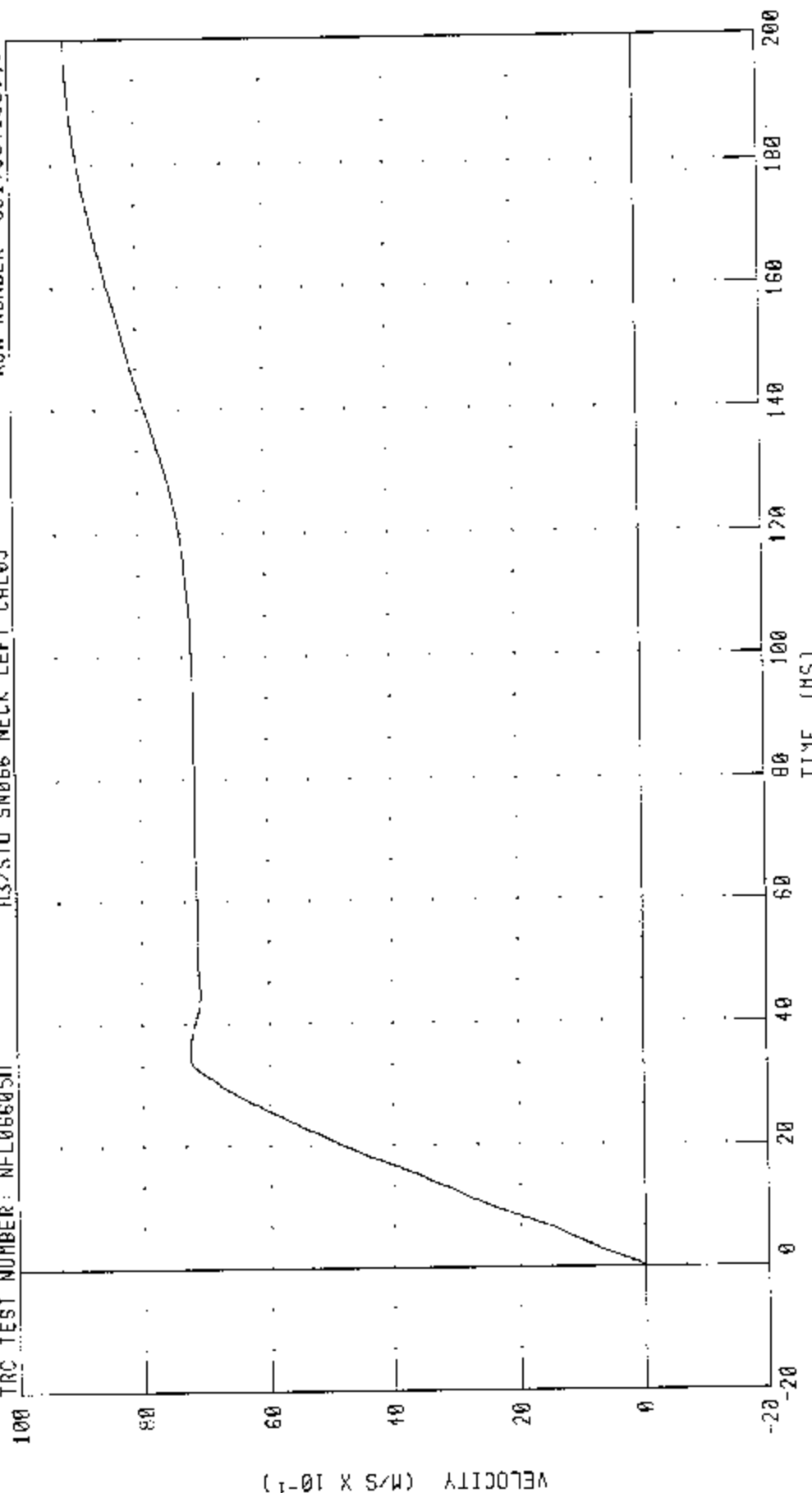
H3/S10 DUMMY CALIBRATION --- LEFT LATERAL NECK TEST

INTEGRATED PENDULUM VELOCITY

H3/S10 SN086 NECK LEFT CAL05

RUN NUMBER: 031703.1351,1

TRC TEST NUMBER: NPL0660511



PEAK DATA: 9.12 M/S @ 200 MS, -0.01 M/S @ -0.64 MS

CHANNEL: PENXVI FILTER CH CLASS 180

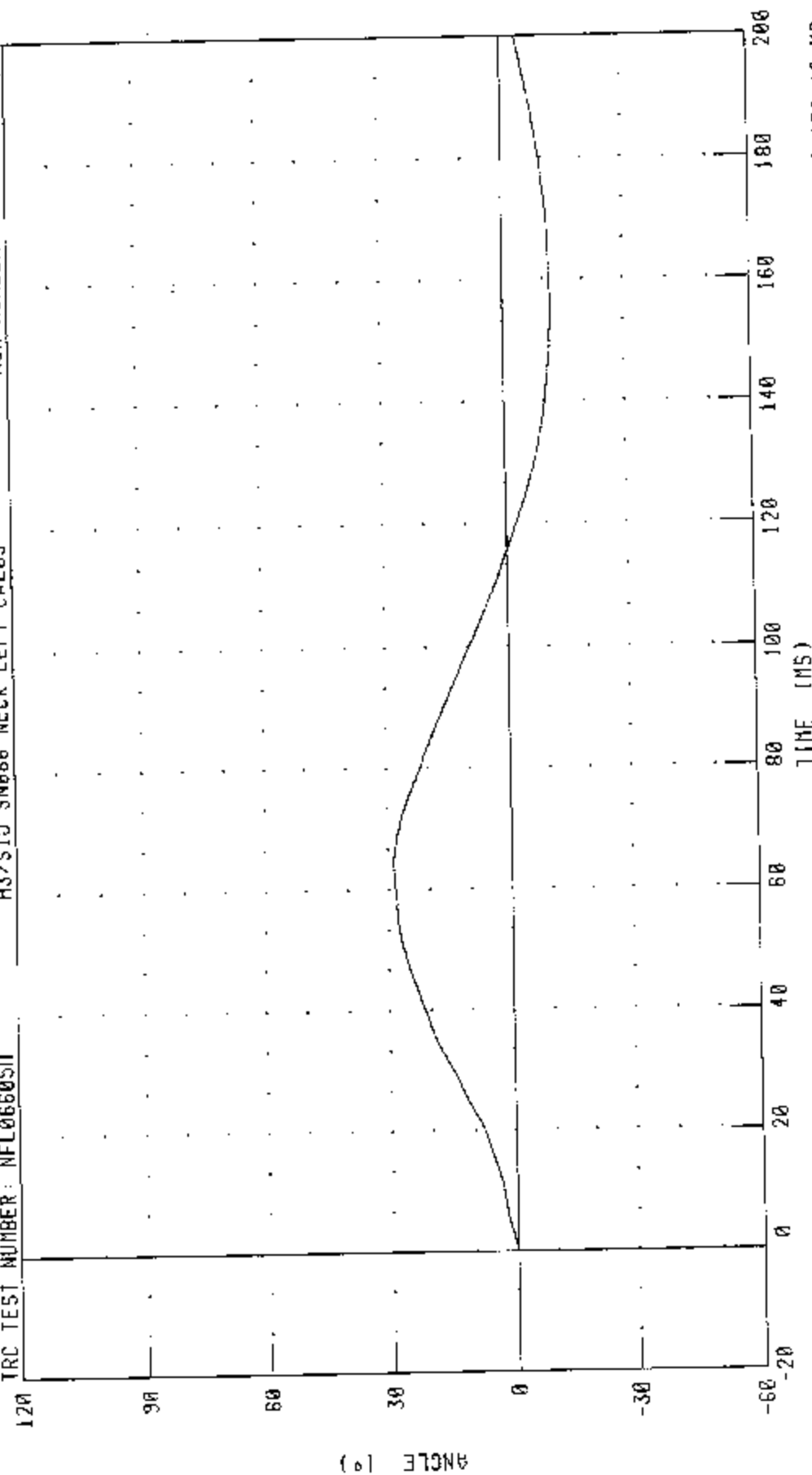
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

ROTATION ABOUT BASE OF NECK

H3/SID SN066 NECK LEFT CAL05

RUN NUMBER: 031703.1351.1

TRC TEST NUMBER: NFL0660511



PEAK DATA: 28.60 ° @ 63.60 MS, -11.74 ° @ 156.16 MS

CHANNEL: BETA FILTER: CH CLASS 60

ANGLE (°)

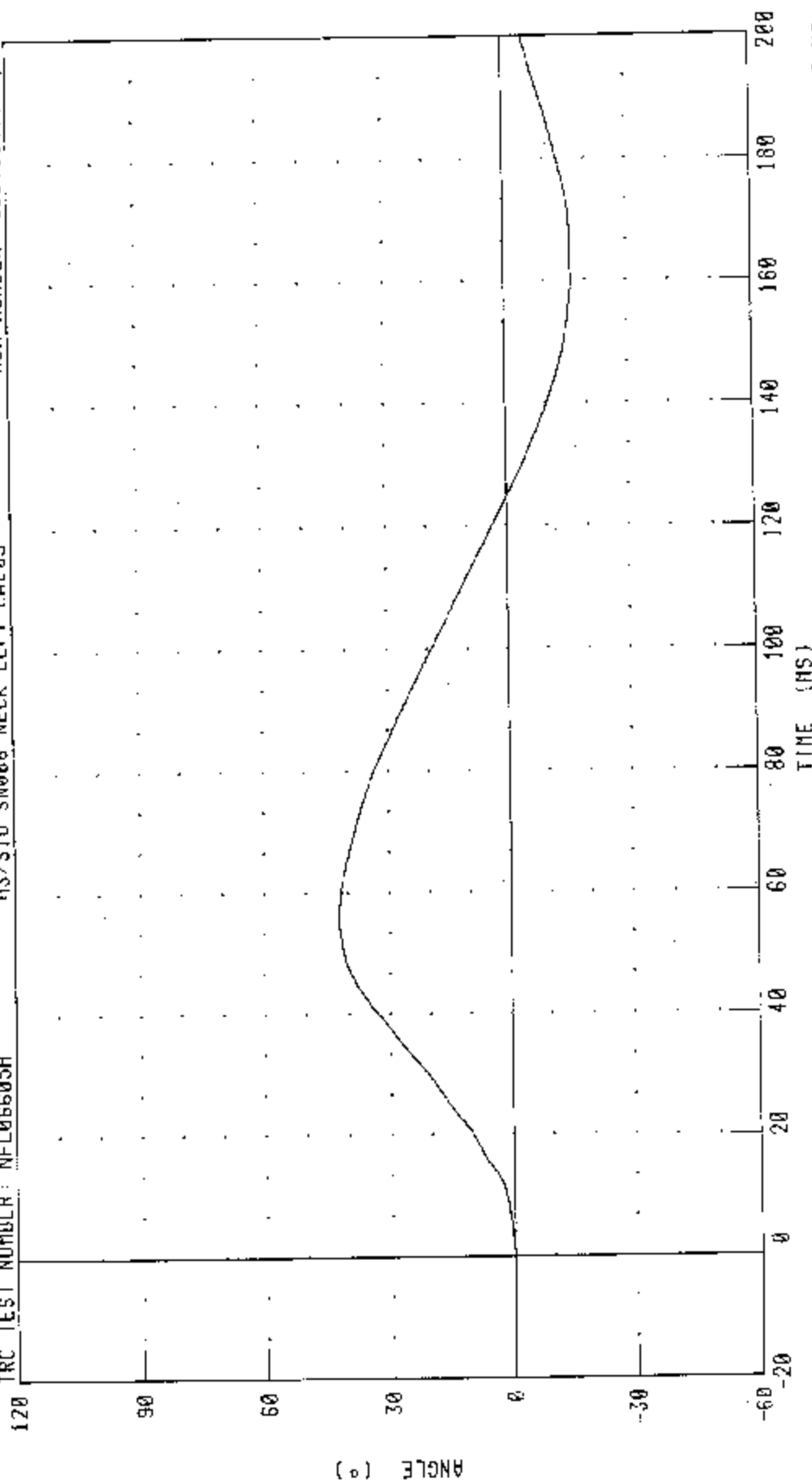
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

ROTATION ABOUT OCCIPITAL CONDYLE

RUN NUMBER: 031703.1351.1

TRC TEST NUMBER: NFL06605H

H3/S10 SN066 NECK LEFT CAL05



PEAK DATA: 42.13 ° @ 56.00 MS; -16.50 ° @ 162.96 MS

CHANNEL: THETA FILTER: CH. CLASS 60

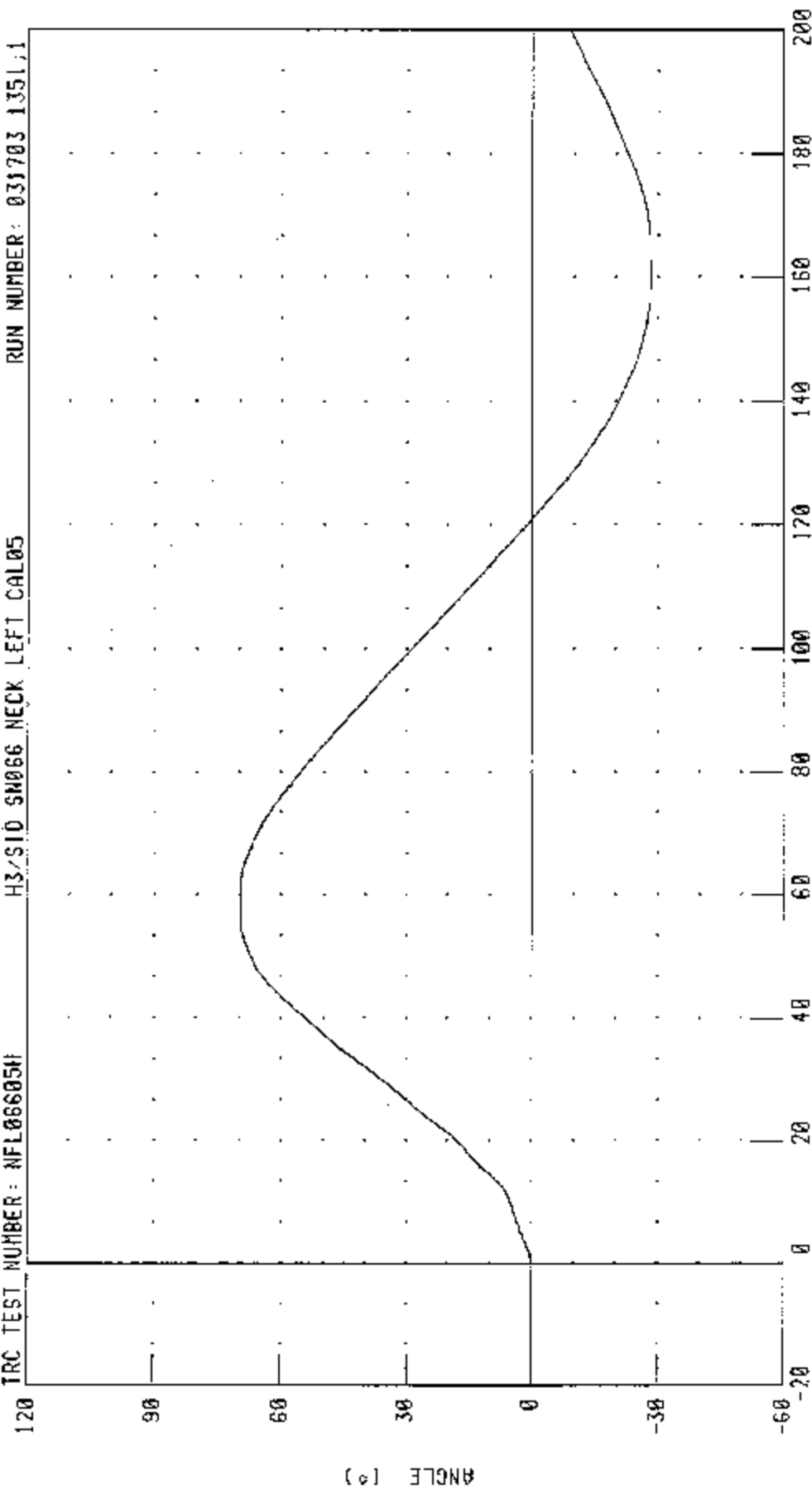
H3/SIO DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

TOTAL ROTATION

TRC TEST NUMBER: NFL06605H

H3/SIO SH066 NECK LEFT CAL05

RUN NUMBER: 031703 1351,1



TIME (MS)

CHANNEL: TOTAL

FILTER: CHL CLASS 60

PEAK DATA: 69.88 ° @ 57.04 MS; -28.23 ° @ 159.92 MS

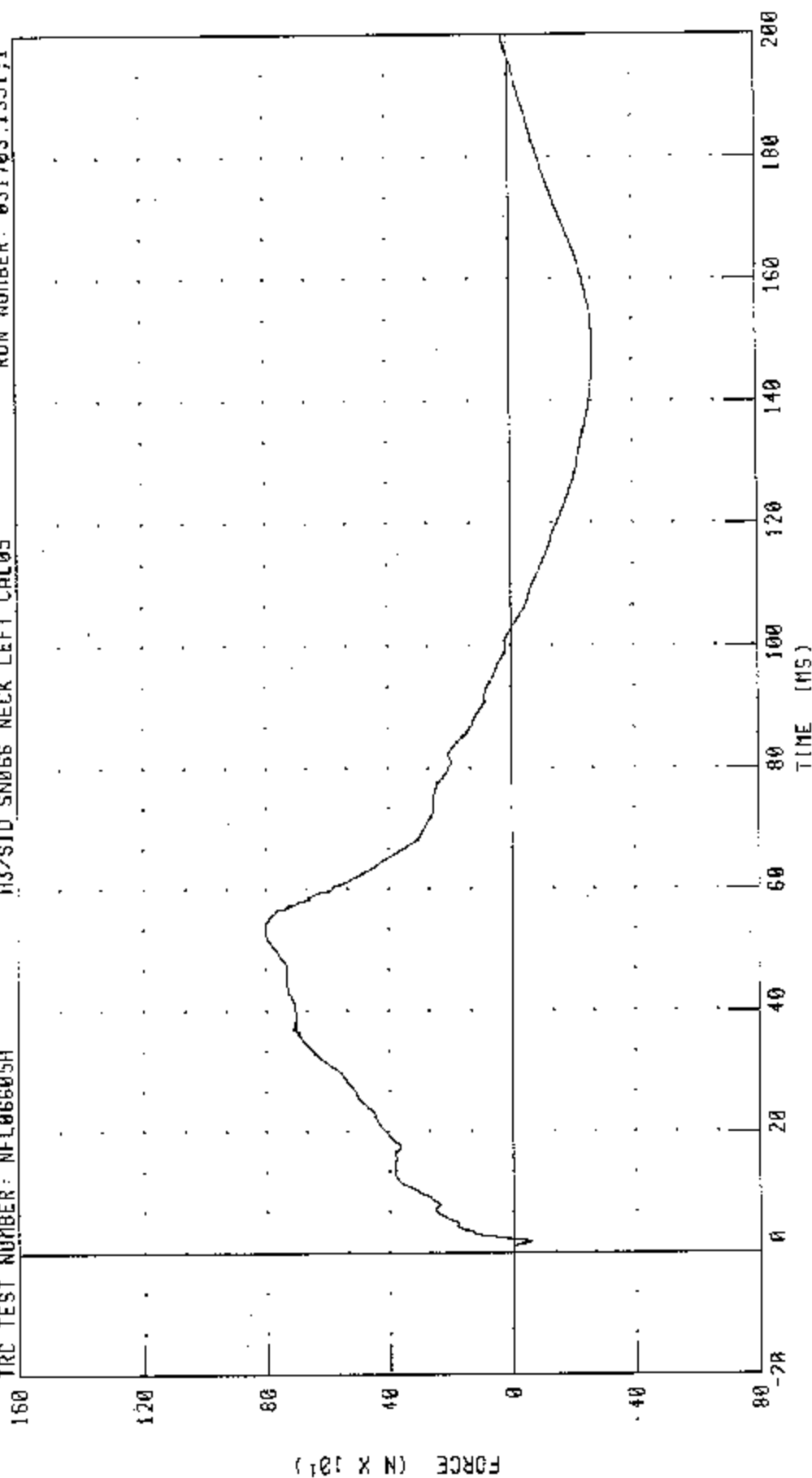
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

NECK FORCE Y AXIS

IRG TEST NUMBER: NFL066805H

H3/SID SN068 NECK LEFT CAL05

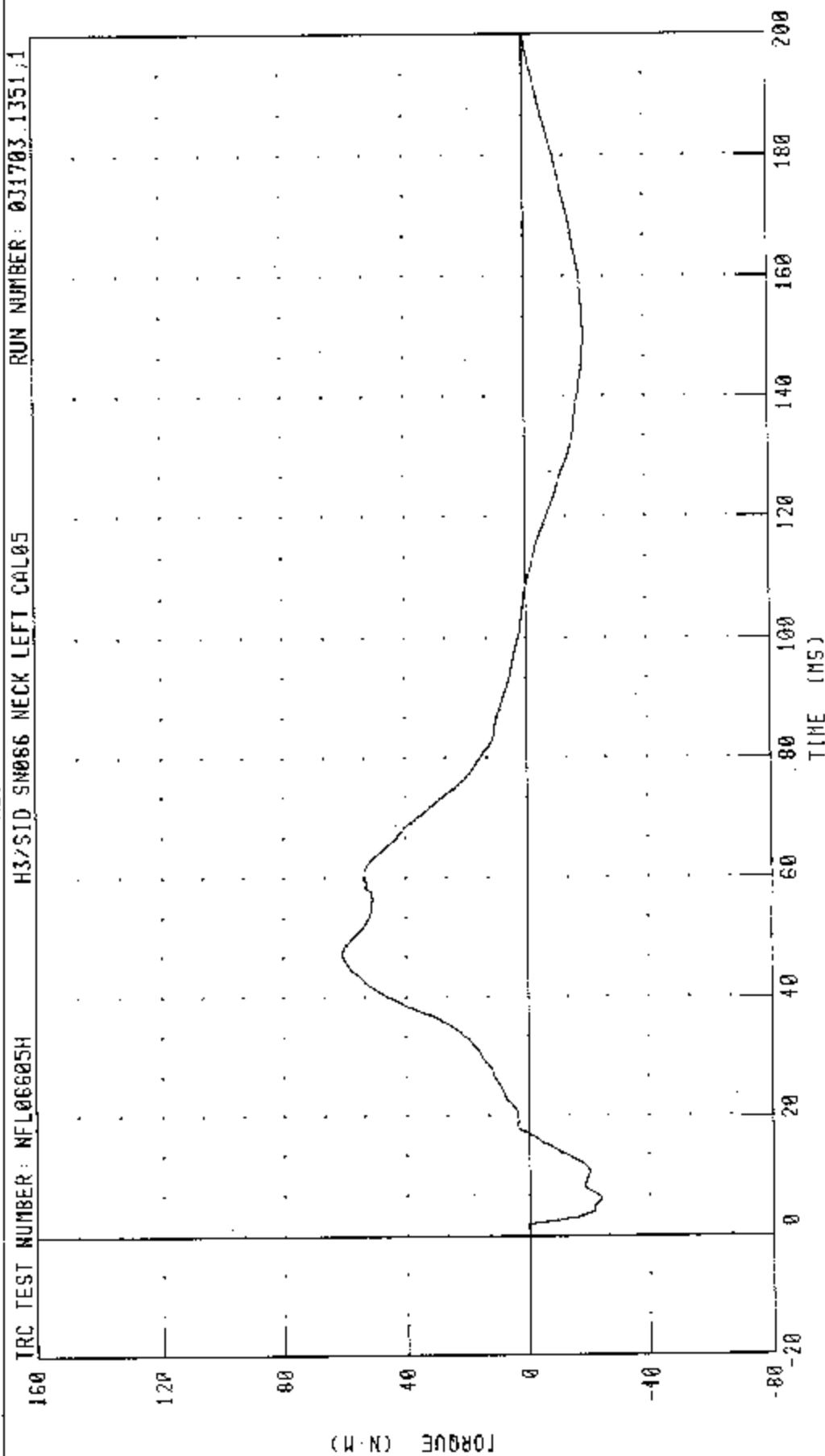
RUN NUMBER: 031703.1351.1



PEAK DATA: 802.87 N @ 53.60 MS, -271.38 N @ 147.20 MS

CHANNEL: NEKYF FILTER: CH CLASS 1000

H3/S1D DUMMY CALIBRATION -- LEFT LATERAL NECK TEST NECK MOMENT X AXIS



TRC TEST NUMBER: NFL06605H H3/S1D SN066 NECK LEFT CAL05 RUN NUMBER: 031703.1351.1

PEAK DATA: 60 43 N·m @ 47 52 MS, -23.92 N·m @ 6.24 MS

CHANNEL: NEKXN FILTER: CH. CLASS 600

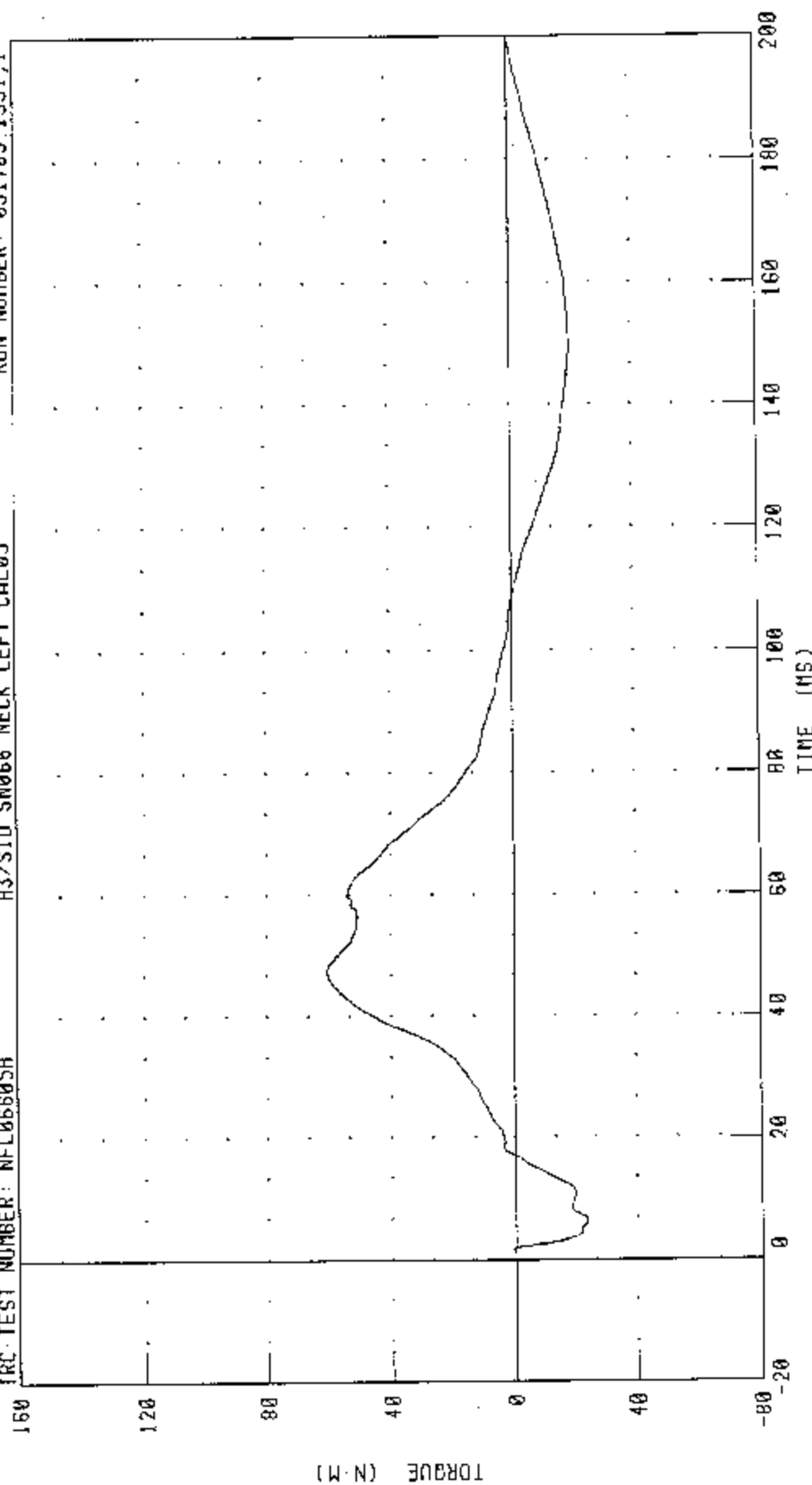
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

NECK MOMENT X AXIS

IRC TEST NUMBER: NFL06605H

H3/SID SN066 NECK LEFT CAL05

RUN NUMBER: 031703.1351.1



PEAK DATA: 60.43 N-M @ 47.52 MS; -73.92 N-M @ 6.24 MS

CHANNEL: NECKM FILTER: CH CLASS 600

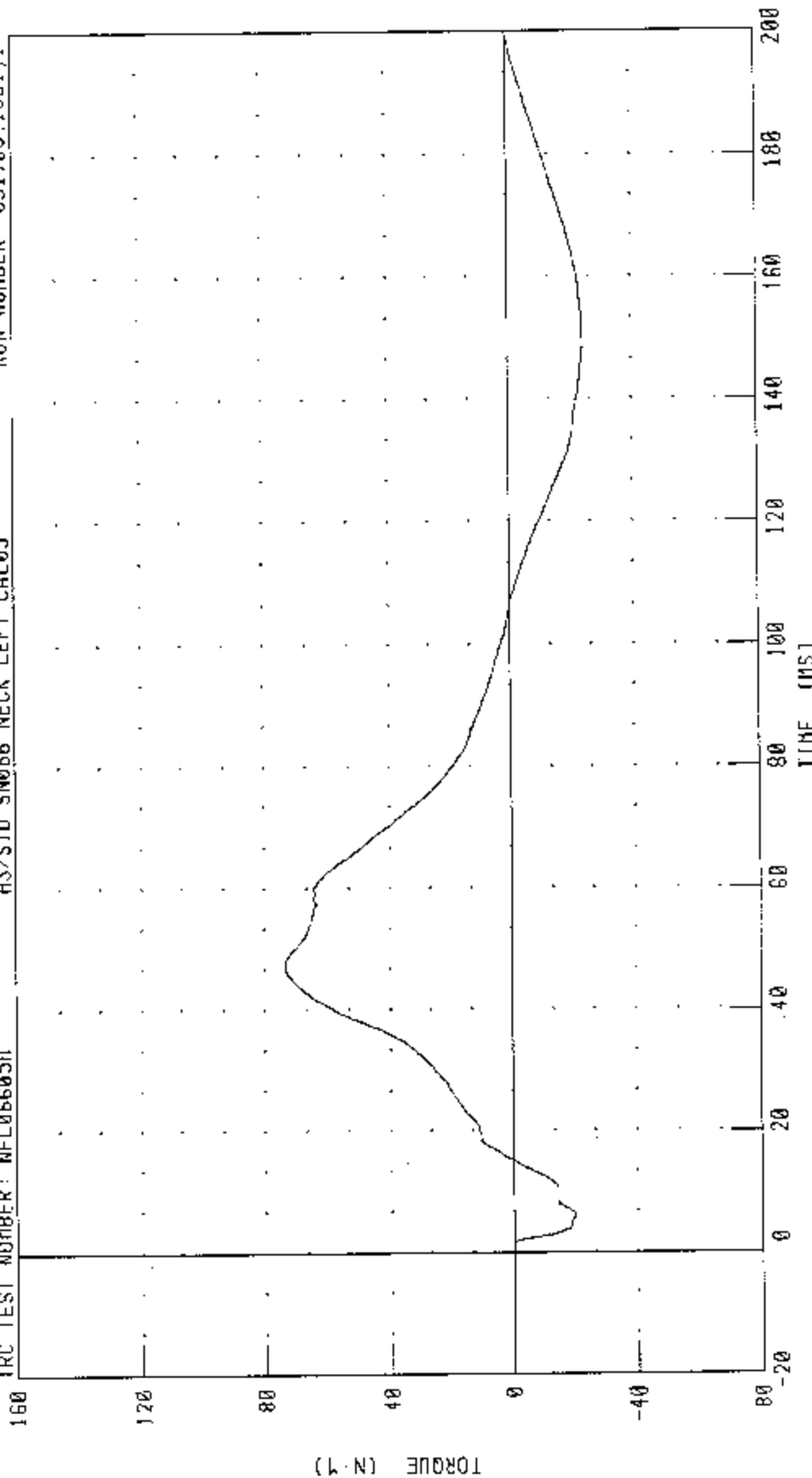
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

TOTAL MOMENT ABOUT OCCIPITAL CONDYLE

RUN NUMBER: 031703.1351;1

TRC TEST NUMBER: WFL0660511

H3/SID SN066 NECK LEFT CAL05



PEAK DATA: 73.50 N-m @ 47.60 MS; -24.49 N-m @ 149.52 MS

CHANNEL: NEKOM FILTER: CH CLASS: 600

TRANSPORTATION RESEARCH CENTER INC.

THORACIC SHOCK ABSORBER TESTS

SIDE IMPACT DUMMY

03-FEB-03

TRC INC.

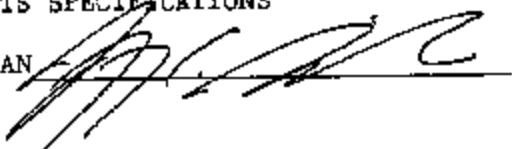
572F SN066 DAMPER TEST CAL02

TEST NUMBERS: DP06602A,DP06602B,DP06602C

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE		18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY		10 - 70 %	46.0 %
VELOCITY	FORCE	667 - 925 N	797 N
2.70 M/S	DISPLACEMENT	29.7 - 34.5 MM	29.9 MM
VELOCITY	FORCE	1733 - 2100 N	1877 N
4.26 M/S	DISPLACEMENT	31.6 - 37.2 MM	35.9 MM
VELOCITY	FORCE	3703 - 4402 N	4387 N
6.07 M/S	DISPLACEMENT	33.3 - 39.5 MM	37.8 MM

DAMPER SETTING = 5.0

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 020303.0731;1

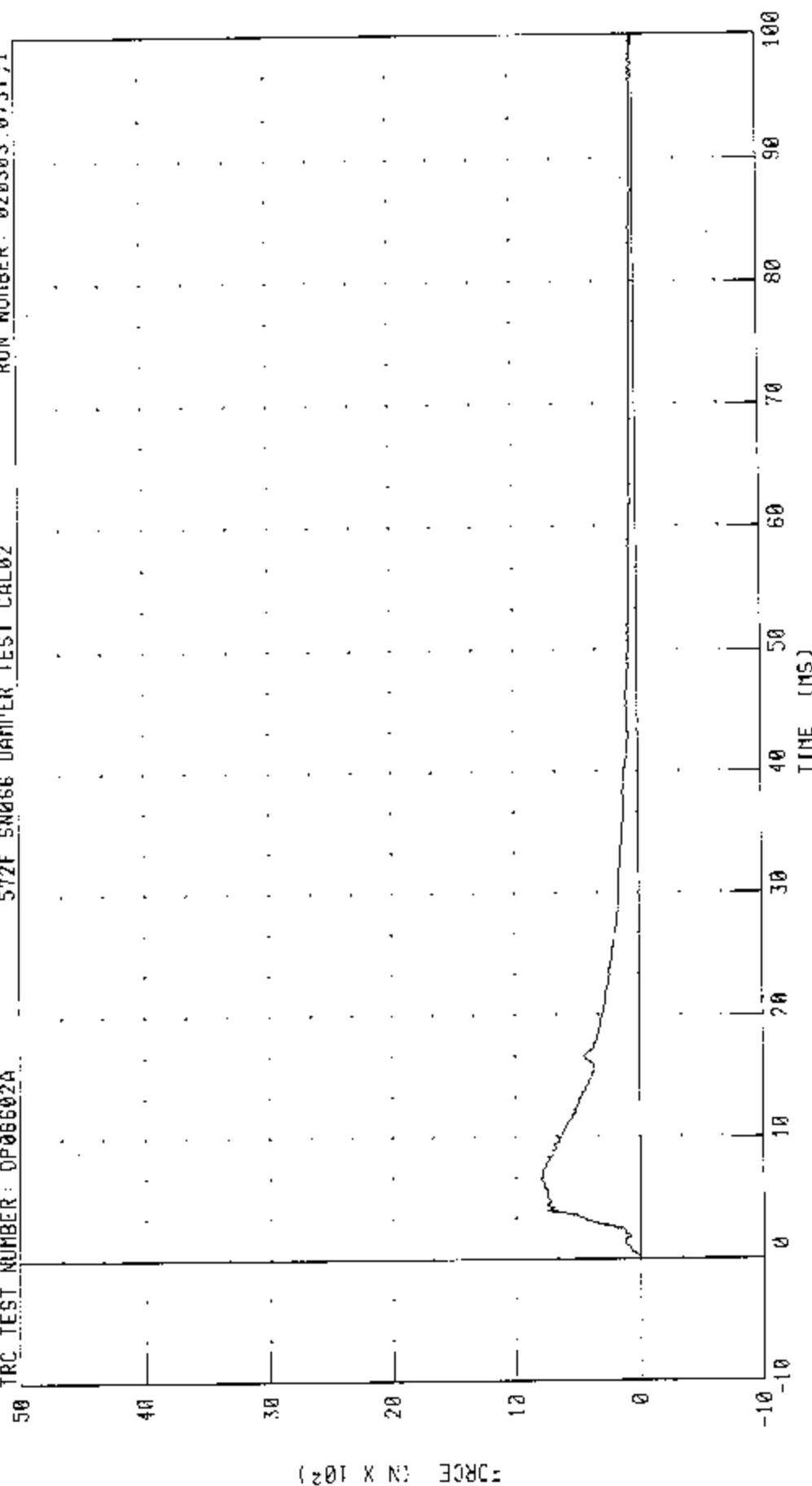
PORC 577-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (3.0 M/SEC)

SHOCK ABSORBER RESISTIVE FORCE

572F SN066 DAMPER TEST CAL02

TRC TEST NUMBER: DP06602A

RUN NUMBER: 020303 0731,1



CHANNEL: DAMPF FILTER: CH. CLASS 1200

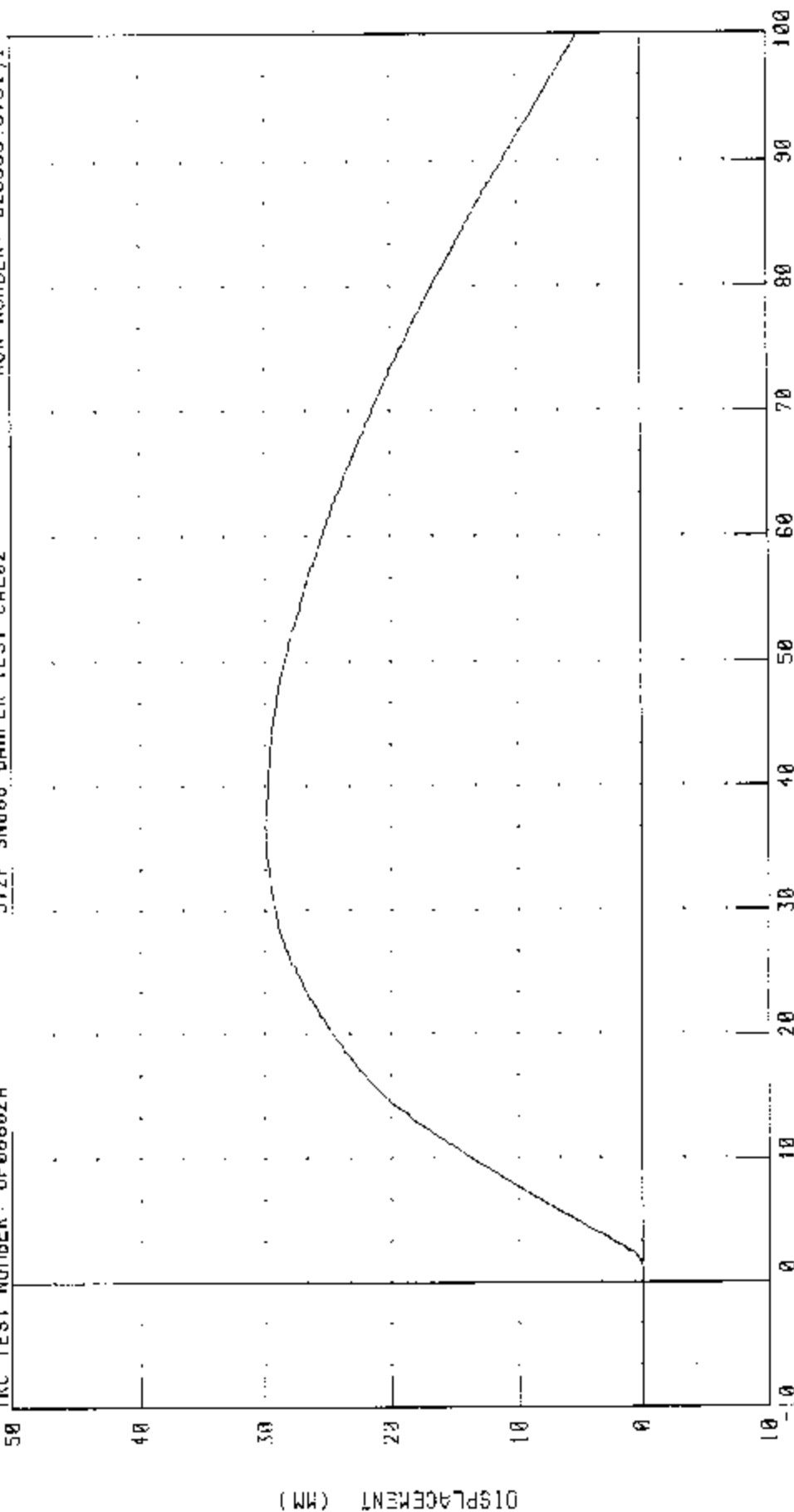
PEAK DATA: 796.77 N @ 6.18 MS, -2.09 N @ -10.00 MS

PART 572-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (3.0 N/SEC)

SHOCK ABSORBER DISPLACEMENT

572F SN066 DAMPER TEST CAL02 RUN NUMBER: 020303.0731.1

TRC TEST NUMBER: 0P06602A



CHANNEL: CSTYD FILTER: CH CLASS 1000

PEAK DATA: 29.94 MM @ 36.24 MS; 0.00 MM @ -4.40 MS

PART 572-F S J D. THORACIC SHOCK ABSORBER CALIBRATION (4.3 N/SEC)

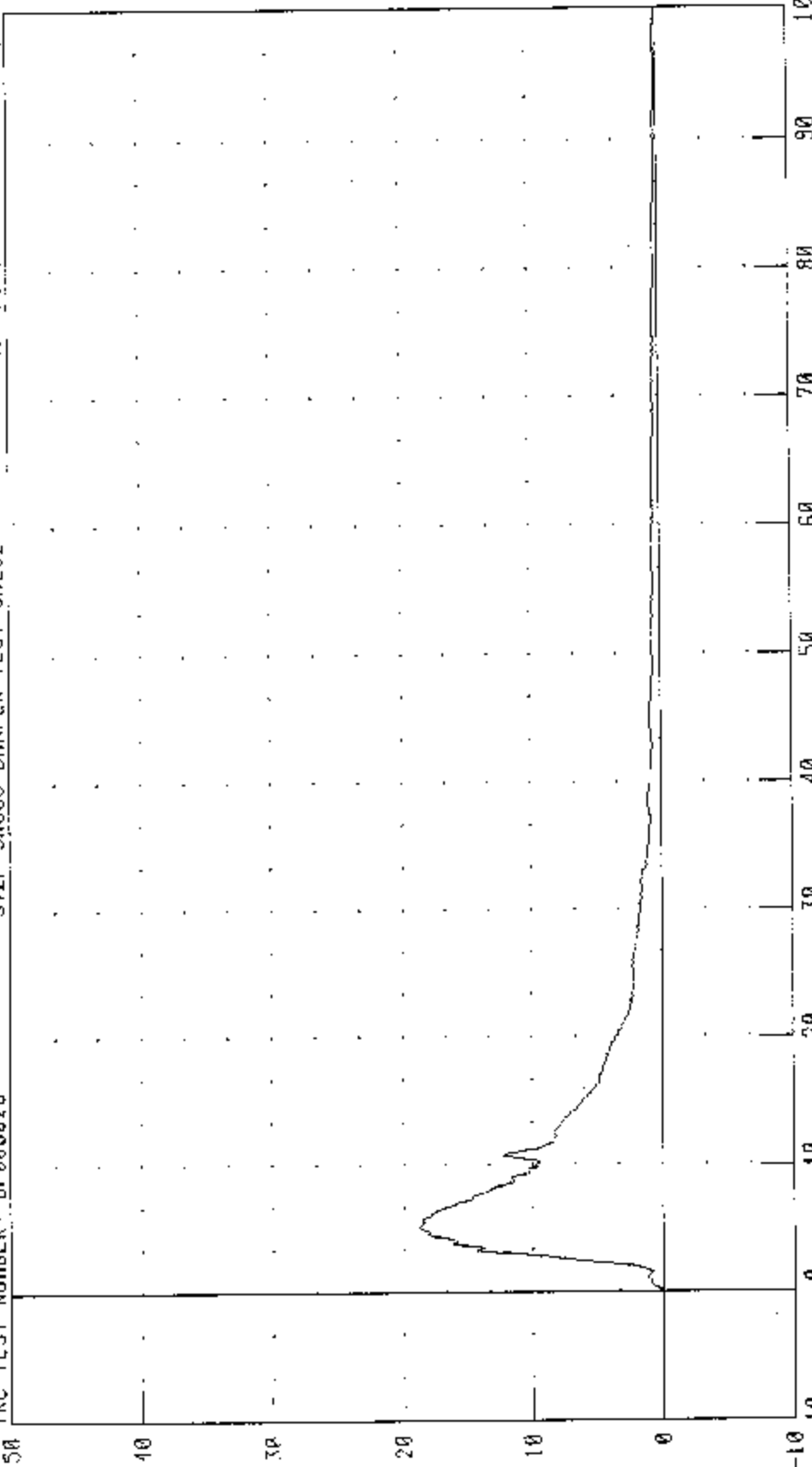
SHOCK ABSORBER RESISTIVE FORCE

572F SN066 DAMPER TEST CAL02

RUN NUMBER 020303.0731.1

TRC TEST NUMBER: DP066020

50



FORCE (N X 10^2)

TIME (MS)

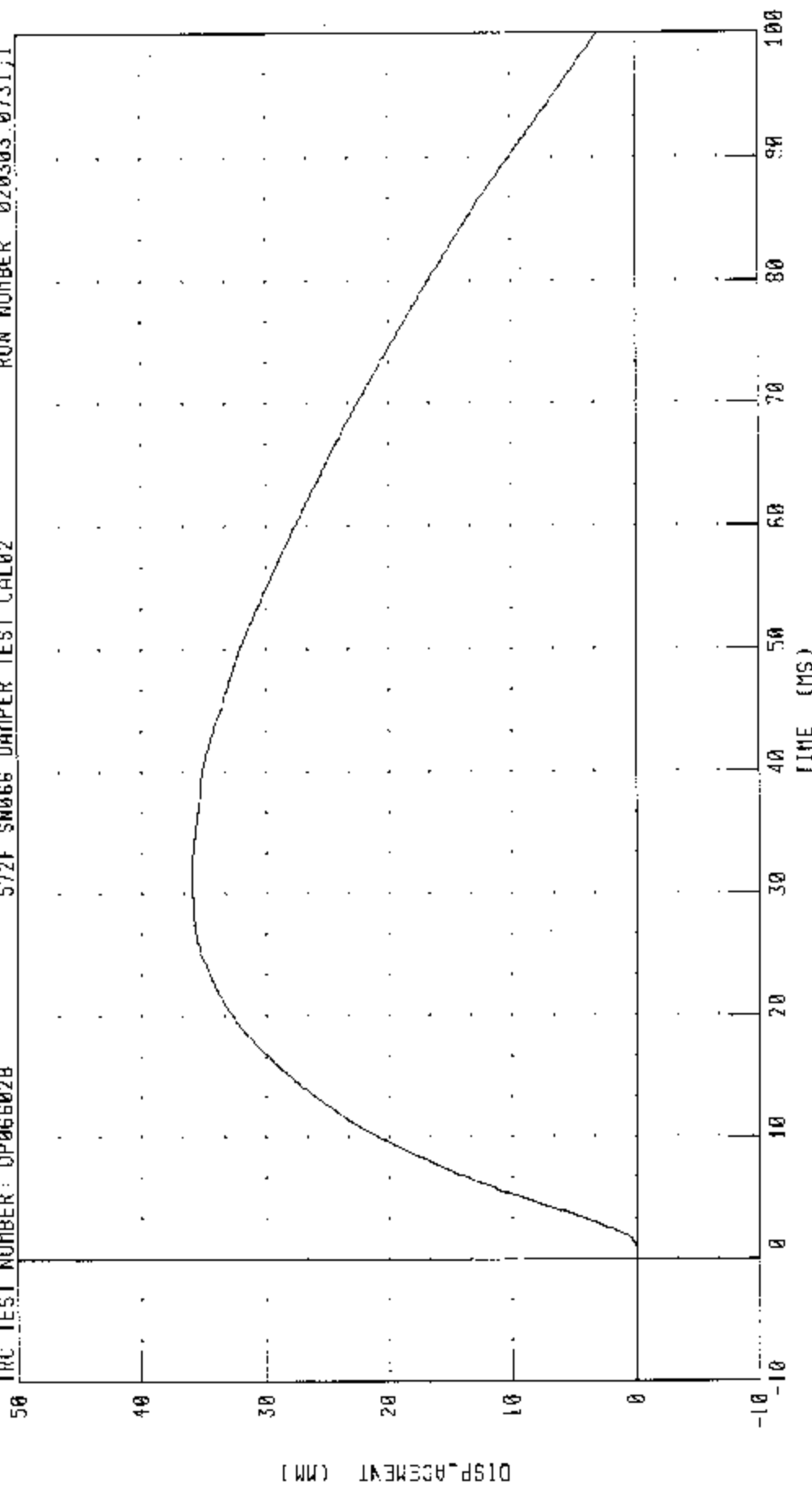
CHANNEL: DMPFF FILTER: CH CLASS 1000

PEAK DATA: 1876 76 N @ 5.12 MS; -2.32 N @ 8.96 MS

PART 572-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (4.3 M/SEC)

SHOCK ABSORBER DISPLACEMENT

TRC TEST NUMBER: DP06B02B 572F SH066 DAMPER TEST CAL02 RUN NUMBER 020303 0731,1



CHANNEL: CSTVD

FILTER: CH. CLASS 1000

TIME (MS)

PEAK UP1A: 55.94 MM @ 31.12 MS; 0.00 MM @ -7.68 MS

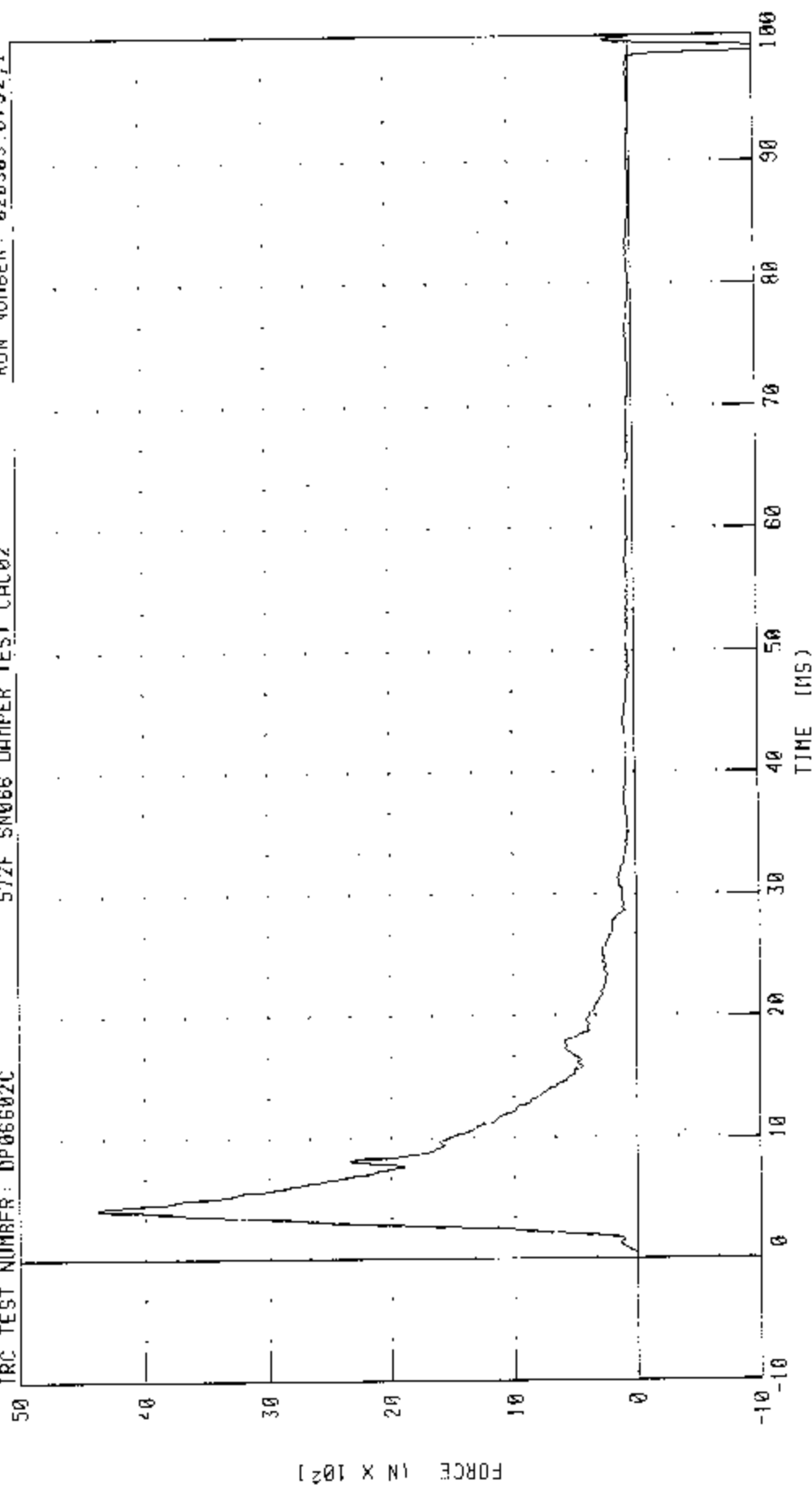
PART 572-F S I 11 HYDRAULIC SHOCK ABSORBER CALIBRATION (5.1 M/SEC)

SHOCK ABSORBER RESISTIVE FORCE

572F SN066 DAMPER TEST CAL02

TRC TEST NUMBER: DP06602C

RUN NUMBER: 020303.0732;1



CHANNEL: DAMPE FILTER: CH CLASS 1000

PEAK DATA: 4387.36 N @ 4.16 MS; 1635.86 N @ 98.88 MS

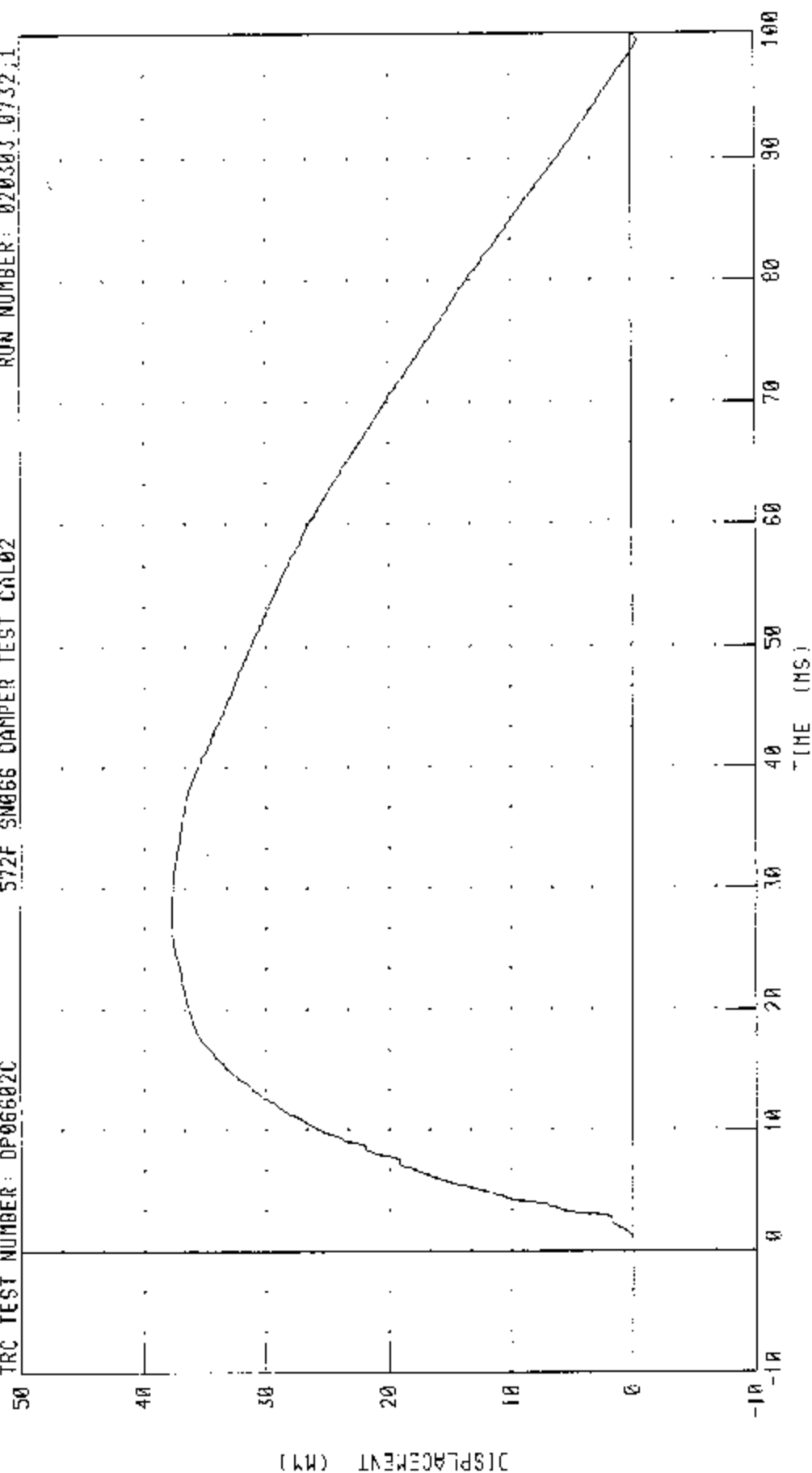
PART 572-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (6.1 M/SEC)

SHOCK ABSORBER DISPLACEMENT

572F SM066 DAMPER TEST CAL02

TRC TEST NUMBER: DP06602C

RUN NUMBER: 020303.0732.1



CHANNEL: CSTVD FILTER: CH CLASS 1000

PEAK DATA: 37.76 MM @ 27.76 MS; -0.52 MM @ 99.36 MS

TRANSPORTATION RESEARCH CENTER INC.

LATERAL THORAX IMPACT TEST

SIDE IMPACT DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

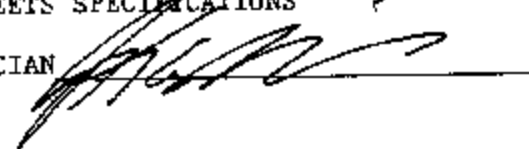
TRC INC.

TEST NO: STL06605

572F SID SN066 L.THORAX CAL05

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	44.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.28 M/S
PEAK ACCELERATION: UPPER RIB BAR	37 - 46 G	42.5 G
PEAK ACCELERATION: LOWER RIB BAR	37 - 46 G	43.1 G
PEAK ACCELERATION: LOWER THORACIC SPINE	15 - 22 G	21.0 G

TEST MEETS SPECIFICATIONS

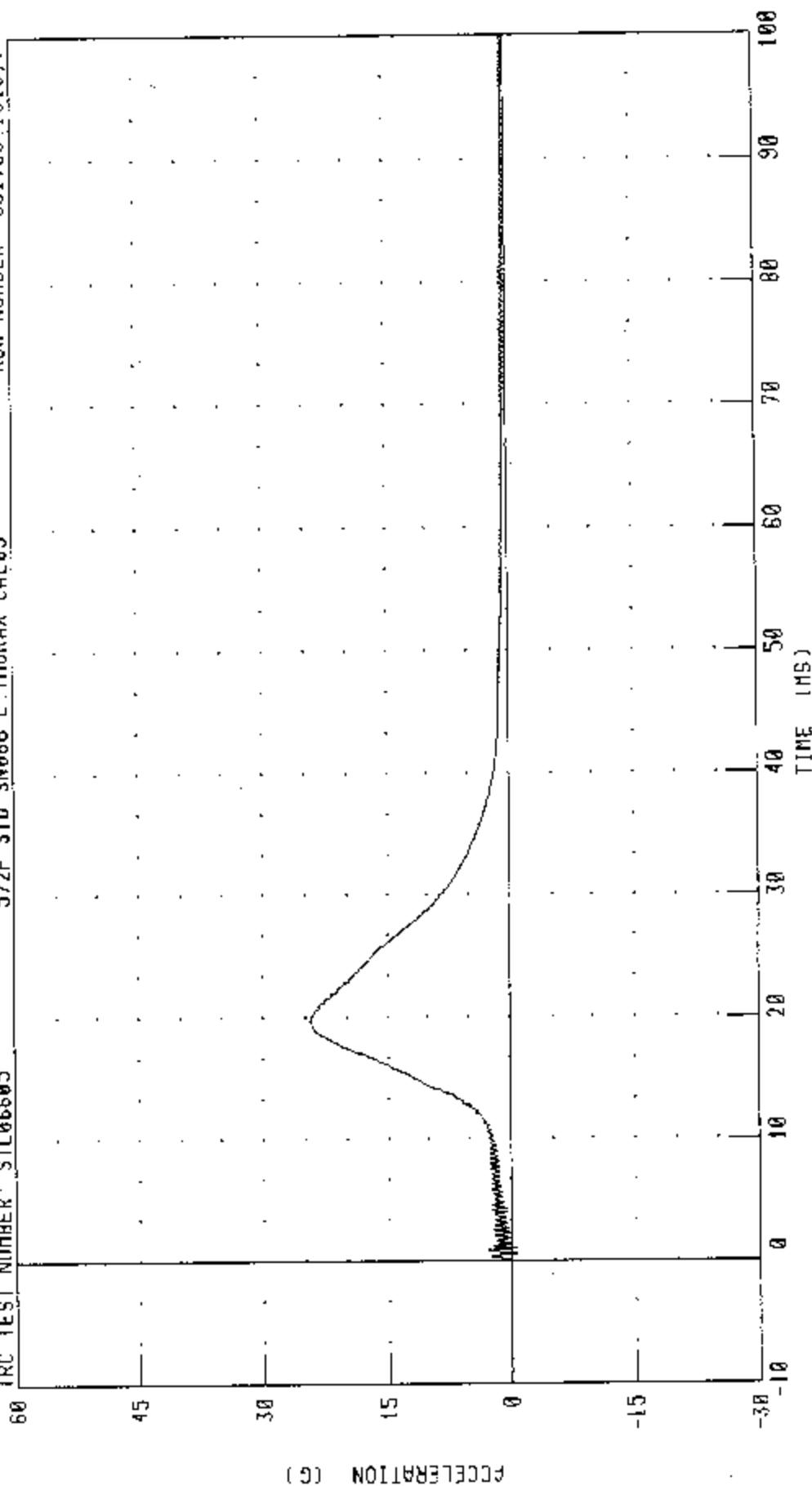
TECHNICIAN 

RUN NUMBER: 031703.1315;1

PART 572-F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION

TRC TEST NUMBER: S1L06805 572F SID SN066 L THORAX CAL05 RUN NUMBER: 031703.1316.1



PEAK DATA: 24.42 G @ 19.76 MS; -0.62 G @ 0.56 MS

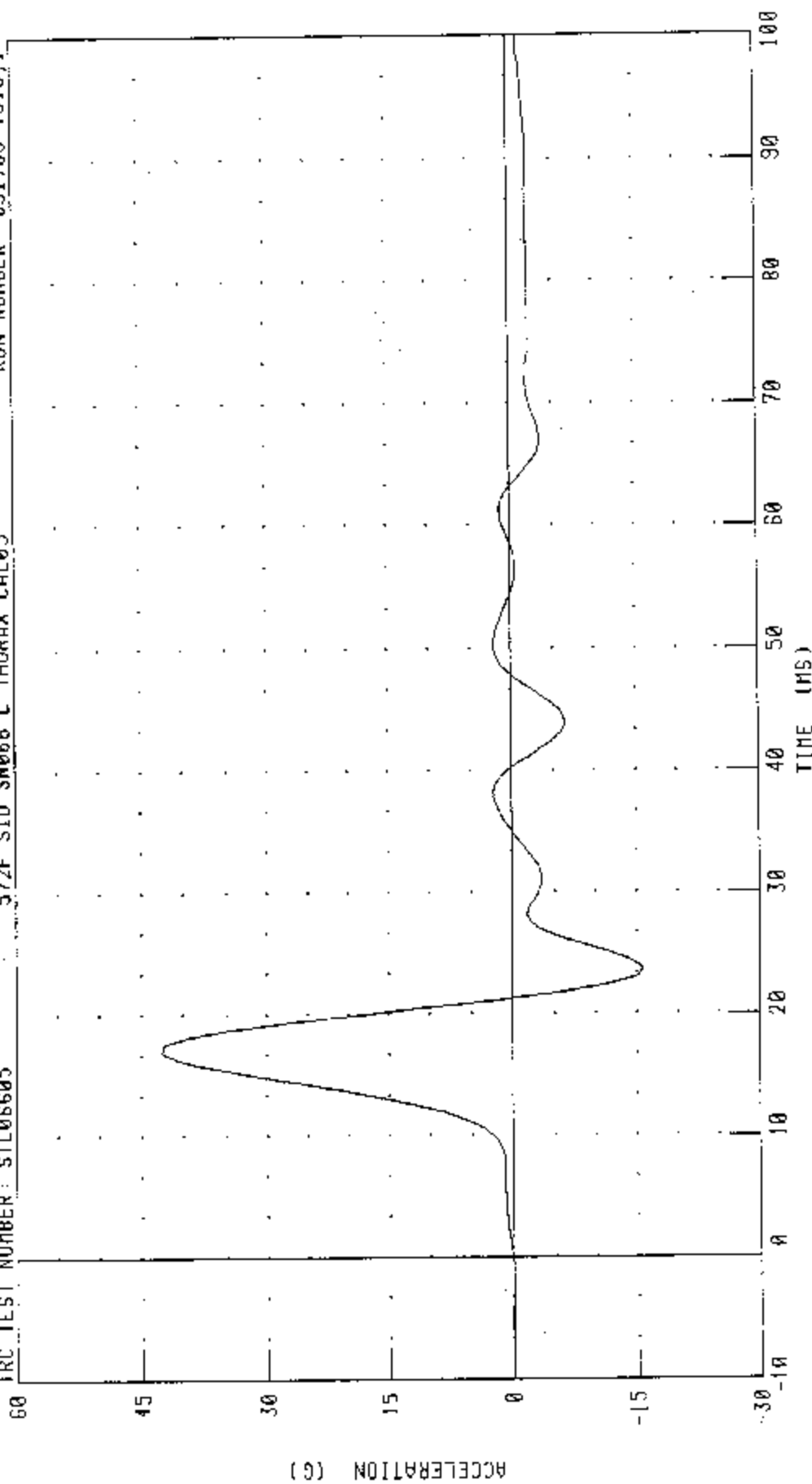
CHANNEL: PENXC FILTER: CH. CLASS 1000

PART 572-F S I.D. THORAX CALIBRATION (LEFT SIDE IMPOCT)

LEFT UPPER RIB ACCELERATION Y AXIS

572F SID SN066 L THORAX CAL05 RUN NUMBER 031703 1316.1

TRC TEST NUMBER: STL06605



PEAK DATA: 42.50 G @ 16.07 MS, -15.76 G @ 23.75 MS

CHANNEL: LURYG FILTER: FIR 100

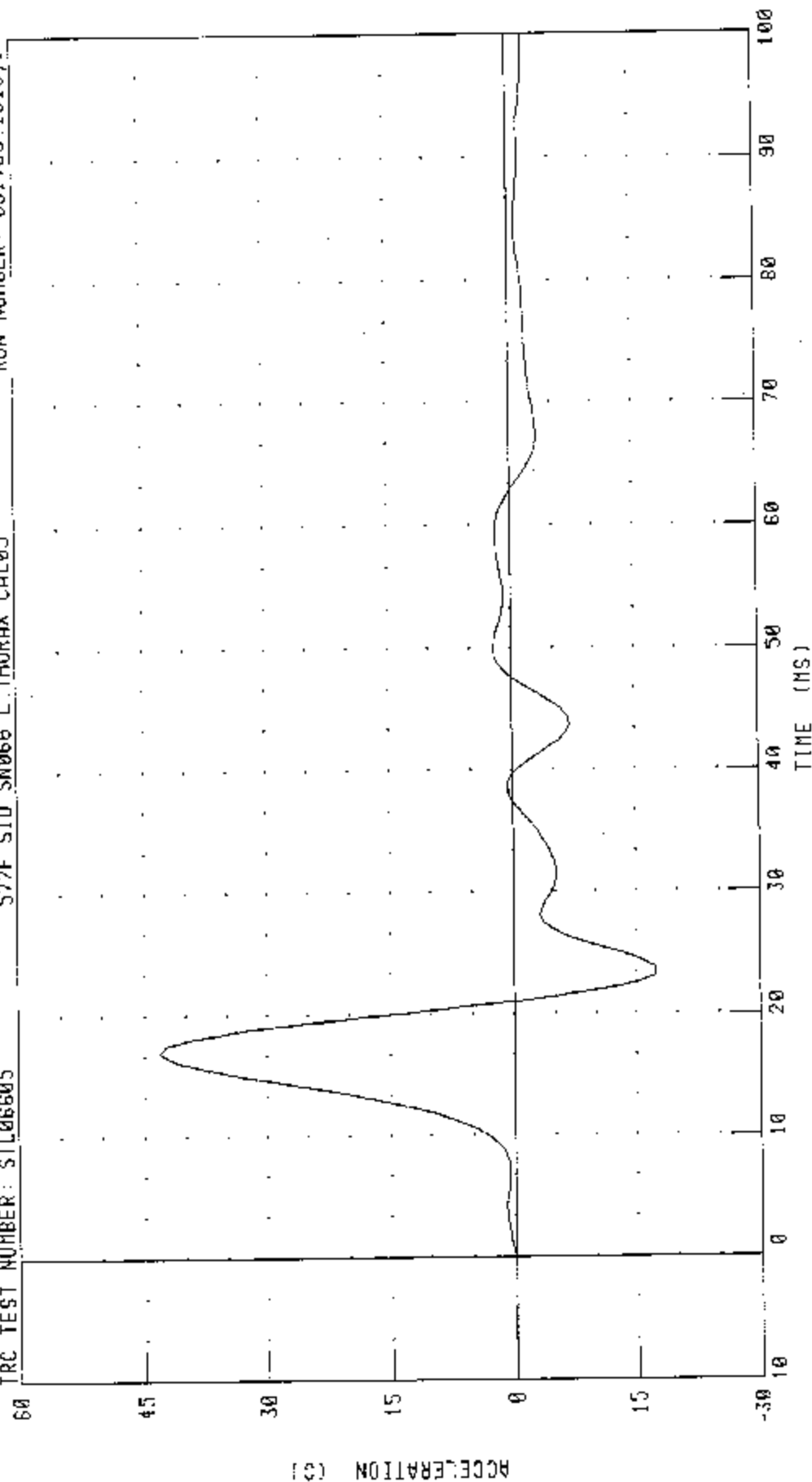
PART 572-F S I.O. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LEFT LOWER RIB ACCELERATION Y AXIS

RUN NUMBER: 031703.1316.1

TRC TEST NUMBER: S1L06605

572F SID SN066 L THORAX CAL05



CHANNEL: L1RYG FILTER: FIR 100

PEAK DATA: 43.98 G @ 16.87 MS, -17.46 G @ 23.75 MS

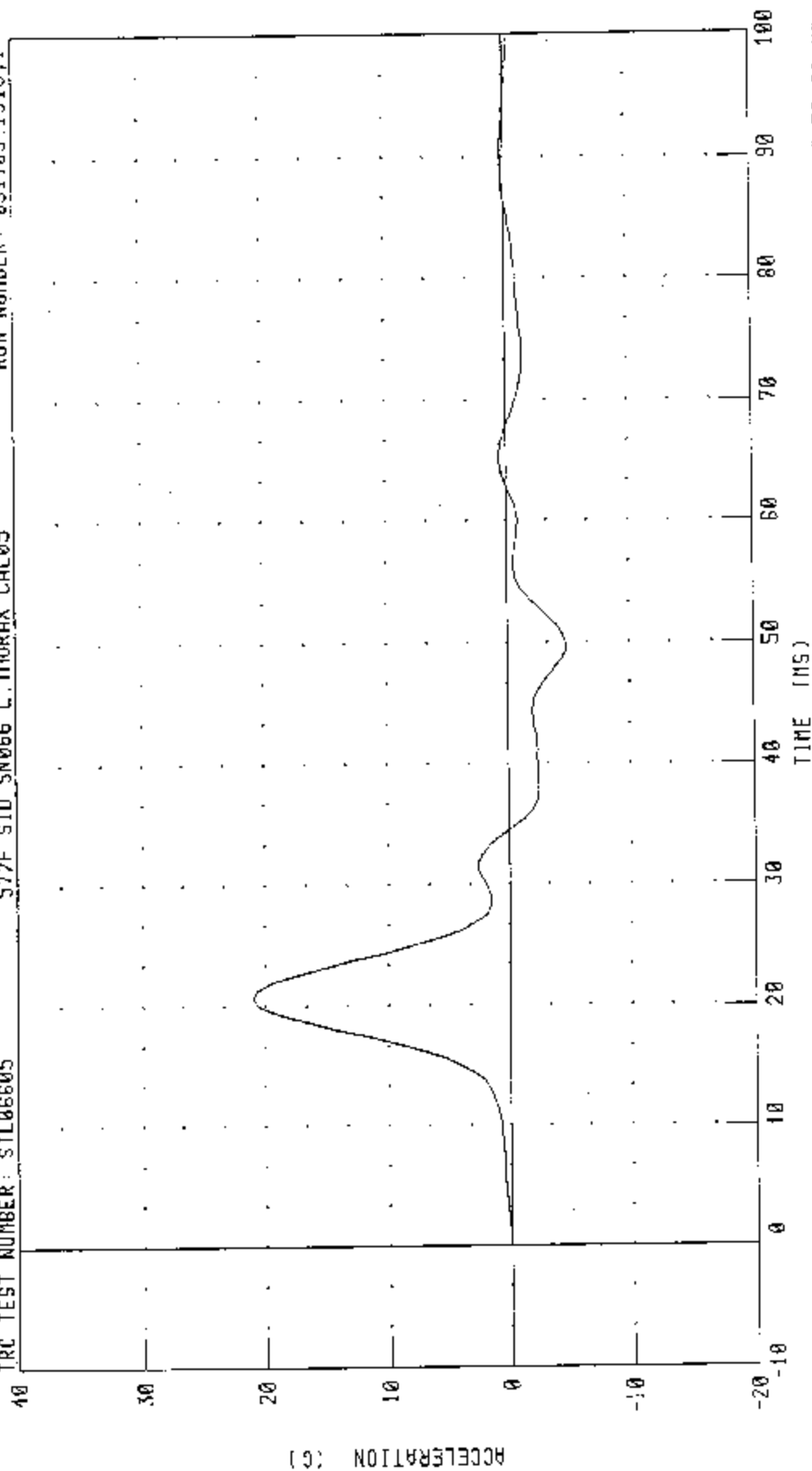
PART 572-F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LOWER SPINE ACCELERATION Y AXIS

TRC TEST NUMBER: 51L06605

572F SID SN066 L THORAX CAL05

RUN NUMBER: 031703.1316.1



PEAK DATA: 20.97 G @ 20.62 MS, -4.89 G @ 50.00 MS

CHANNEL: T12YC FILTER: FIR 100

Transportation Research Center Inc.

572B Abdomen Compression Test

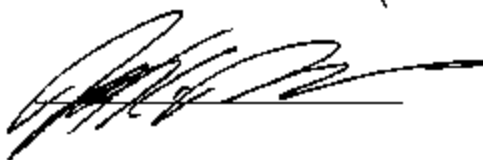
HIII SID Serial No. 066 Calibration No. 05 - 1

Test Date 02/28/2003

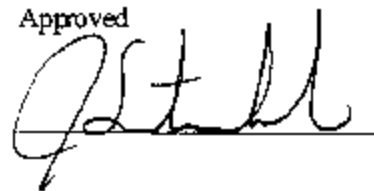
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.7 °C	Yes
Relative Humidity	10 - 70 %	31 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	6.8 - 7.9 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Comments:

Technician



Approved



03.14.2003 15:05:06 45

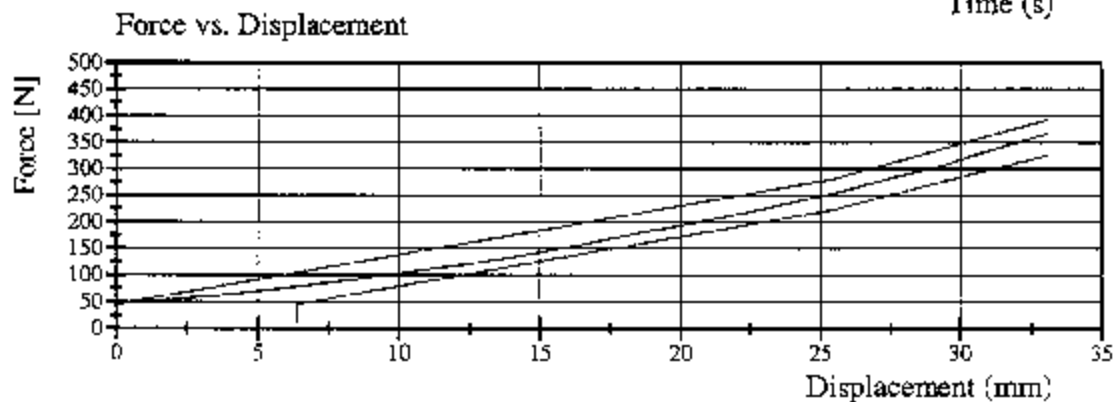
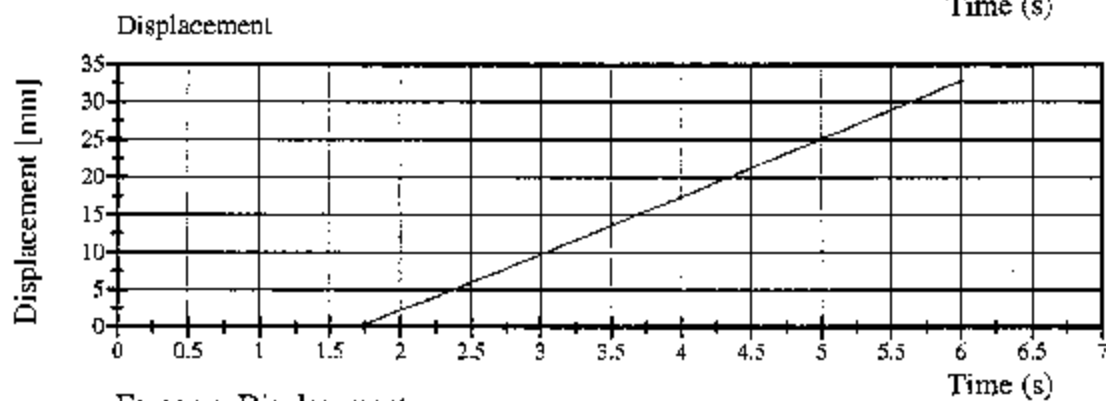
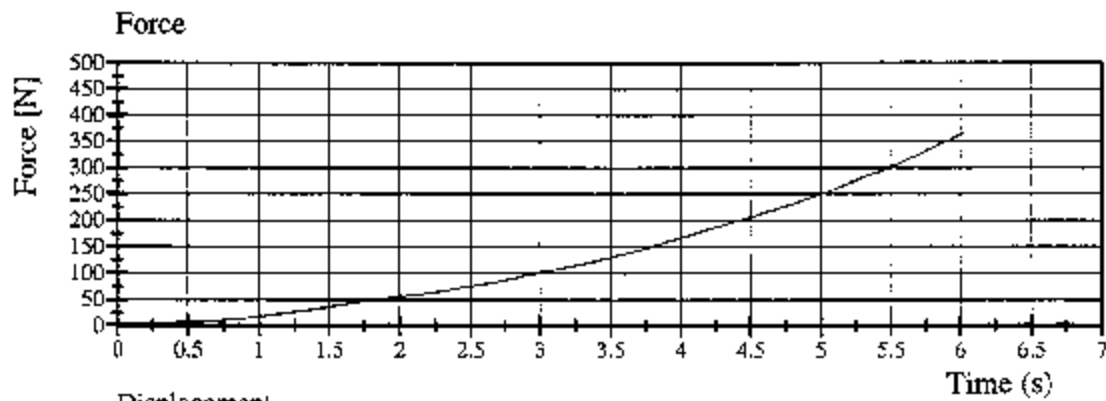


Transportation Research Center Inc.

572B Abdomen Compression Test

HIII SID Serial No. 066 Calibration No. 05 - 1

Test Date 02/28/2003



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 27-Feb-03

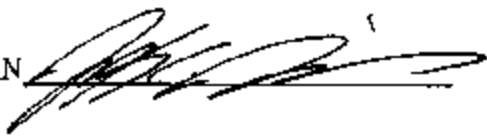
TRC, INC.

TEST NO: 066C05TF1

572B SN 066 TORSO FLEX CAL 05

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.1 °C
RELATIVE HUMIDITY	10 - 70 %	31 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	120.1 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	169.0 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	226.9 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	6 °

TEST MEETS SPECIFICATIONS

TECHNICIAN 

TRANSPORTATION RESEARCH CENTER INC.

LATERAL PELVIS IMPACT TEST

SIDE IMPACT DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

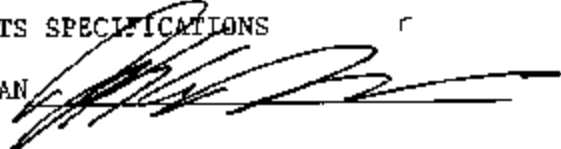
TRC INC.

TEST NO: SPL06605

572F SN066 LEFT PELVIS CAL05

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	44.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.29 M/S
PEAK PELVIC ACCELERATION	40 - 60 G	50.9 G
TIME ABOVE 20 G LEVEL	3 - 7 MS	6.1 MS
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 031703.1314;1

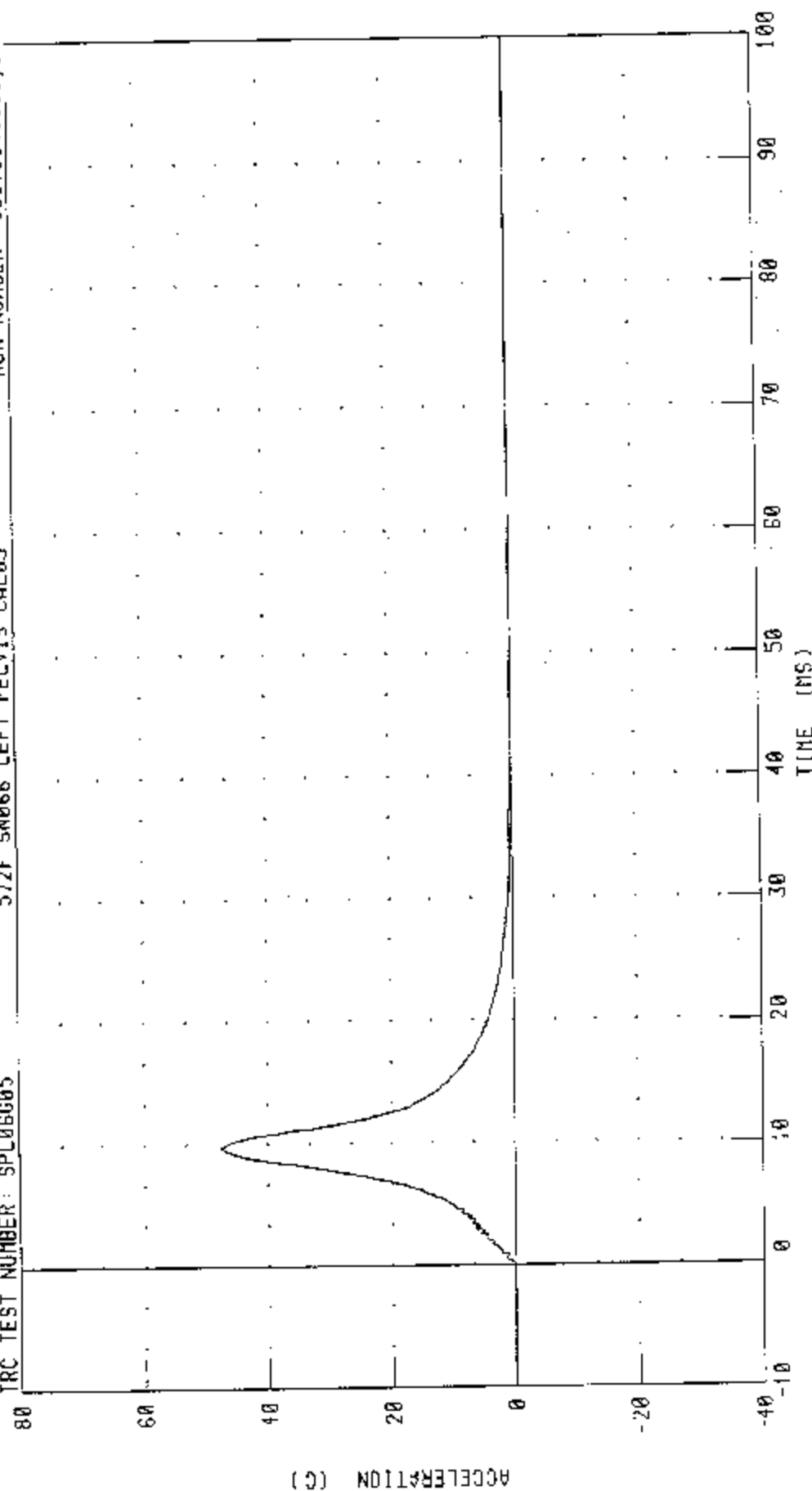
PART 572-F S.I.D. PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION

TRC TEST NUMBER: SPL06G05

572F 5N066 LEFT PELVIS CAL05

RUN NUMBER: 031703.1316.1



TIME (MS)

PEAK DATA: 47.78 C 0 9 76 MS; -0 12 G 0 51.20 MS

CHANNEL: PENXG FILTER: CH CLASS 1000

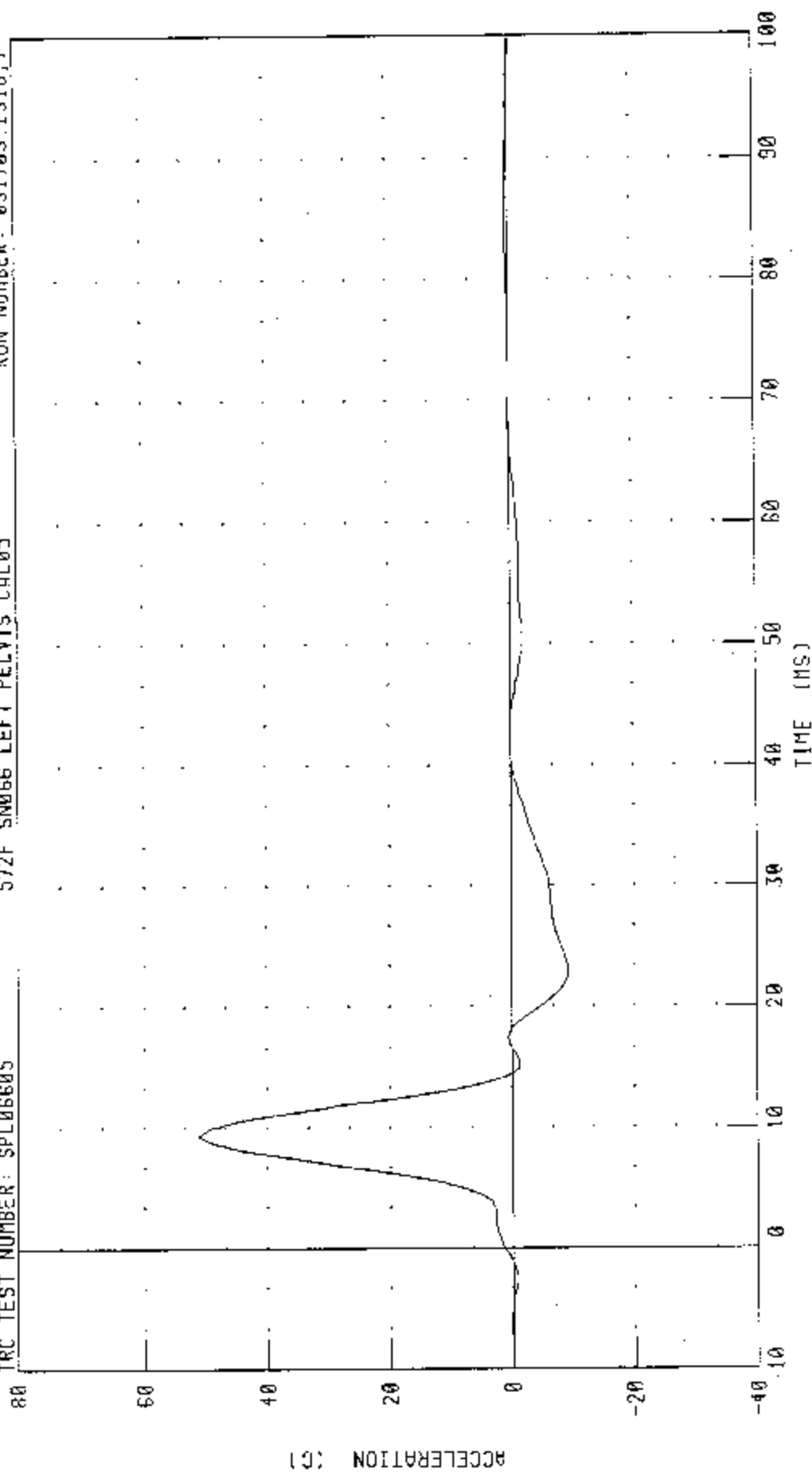
PART 572-F S.I.O. PELVIS CALIBRATION (LEFT SIDE IMPACT)

PELVIS ACCELERATION Y AXIS

572F SN066 LEFT PELVIS CAL05

RUN NUMBER: 031703.1316.1

TRC TEST NUMBER: SPL06605



PEAK DATA 50.91 G @ 9.37 MS; -9.16 G @ 23.13 MS

CHANNEL PEVYG FILTER: FTR 100

Calibration Test Results

Pre-Test

SID-HIII: 065

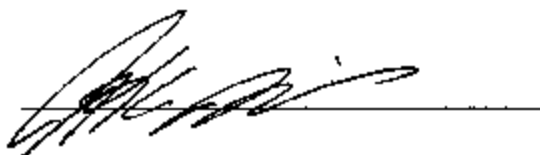
Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time (tested on February 3, 2002, for a previous calibration series).
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.

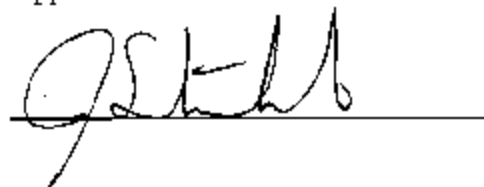
Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No. 065 Calibration No. 05

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	899 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	512 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	237 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	513 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	499 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	372 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	171 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	171 mm	Yes
Difference Between Top & Bottom Rib Width from CL		$\leq$ 2.5 mm	0.0 mm	Yes

Technician



Approved




TRANSPORTATION RESEARCH CENTER INC.

LATERAL HEAD DROP TEST

HYBRIDIII SID DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

TRC INC.

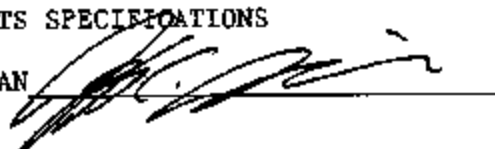
TEST NO. HDL06505

H3/SID SN065 HEAD DROP CAL05

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6 deg. C	21.67 deg. C
RELATIVE HUMIDITY	10 - 70 %	30.00 %
PEAK RESULTANT ACCELERATION	120 - 150 G	145.53 G
PEAK LONGITUDINAL ACCELERATION	15 G MAX	-9.09 G
IS ACCELERATION CURVE UNINODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN



RUN NUMBER: 031403.0930;1

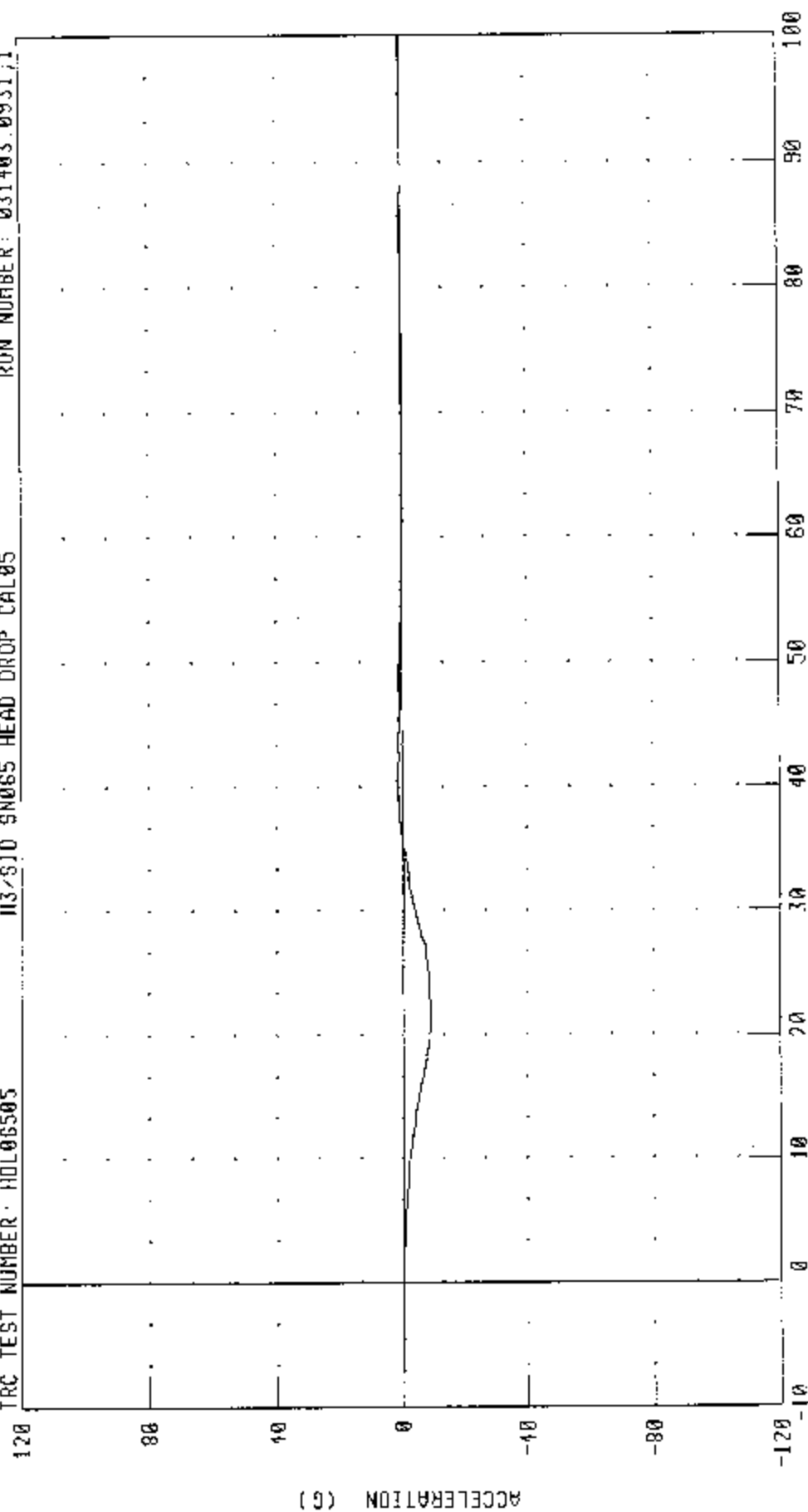
BIOSID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION X AXIS

TRC TEST NUMBER: HDL06505

113/S10 SN065 HEAD DROP CAL05

RUN NUMBER: 031403.0931.1



TIME (MS X 10⁻¹)

PEAK DATA: 1.42 C 0 4 RB MS; -9.09 C 0 2 16 MS

CHANNEL: HEOXC FILTER: CH. CLASS 1000

ACCELERATION (G)

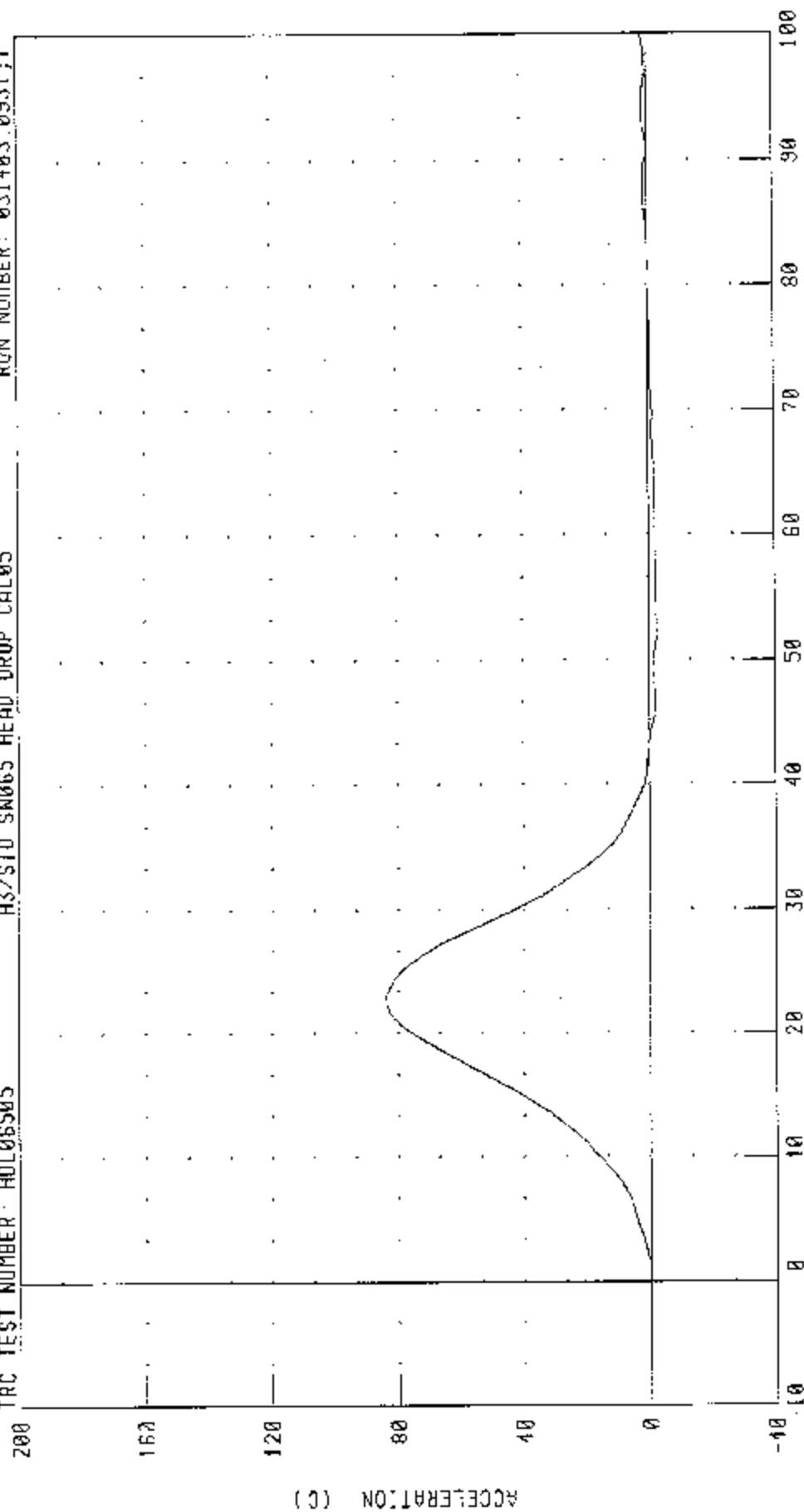
BIOSIO DUNNY CALIBRATION - 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Y AXIS

TRC TEST NUMBER: H0106505

H3/S10 SN065 HEAD DROP CAL05

RUN NUMBER: 031403 0931.1



PEAK DATA 83.99 G @ 2.24 MS; -2.55 G @ 5.20 MS

CHANNEL: HF0Y0 FILTER: CH. CLASS 1000

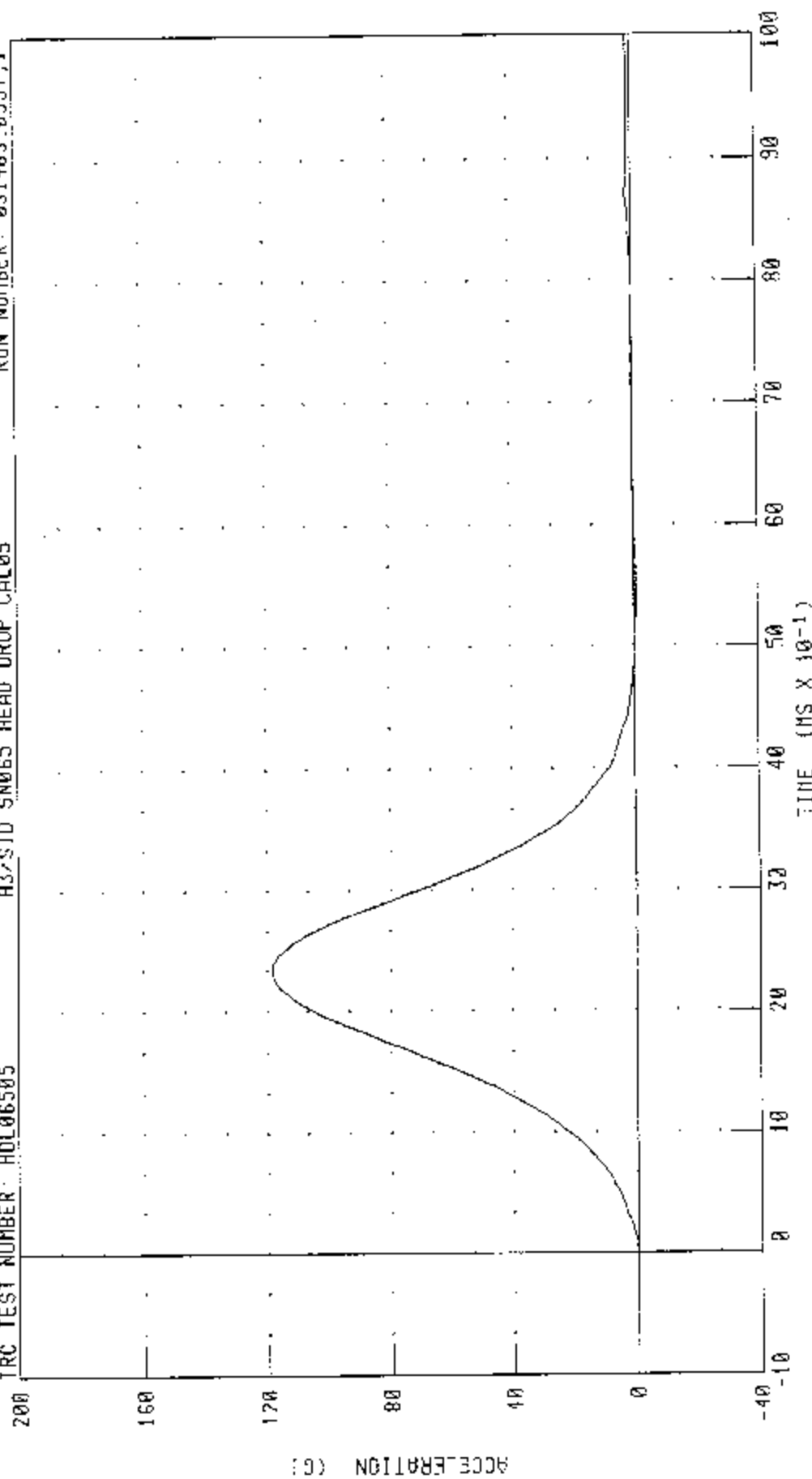
BIOSID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Z AXIS

TRC TEST NUMBER: HDL06505

H3/S10 SN065 HEAD DROP CAL05

RUN NUMBER: 031403.0931.1



CHANNEL: HED70 FILTER: CH CLASS 1000

PEAK DATA: 118.53 G @ 2.32 MS; -0.78 G @ 5.36 MS

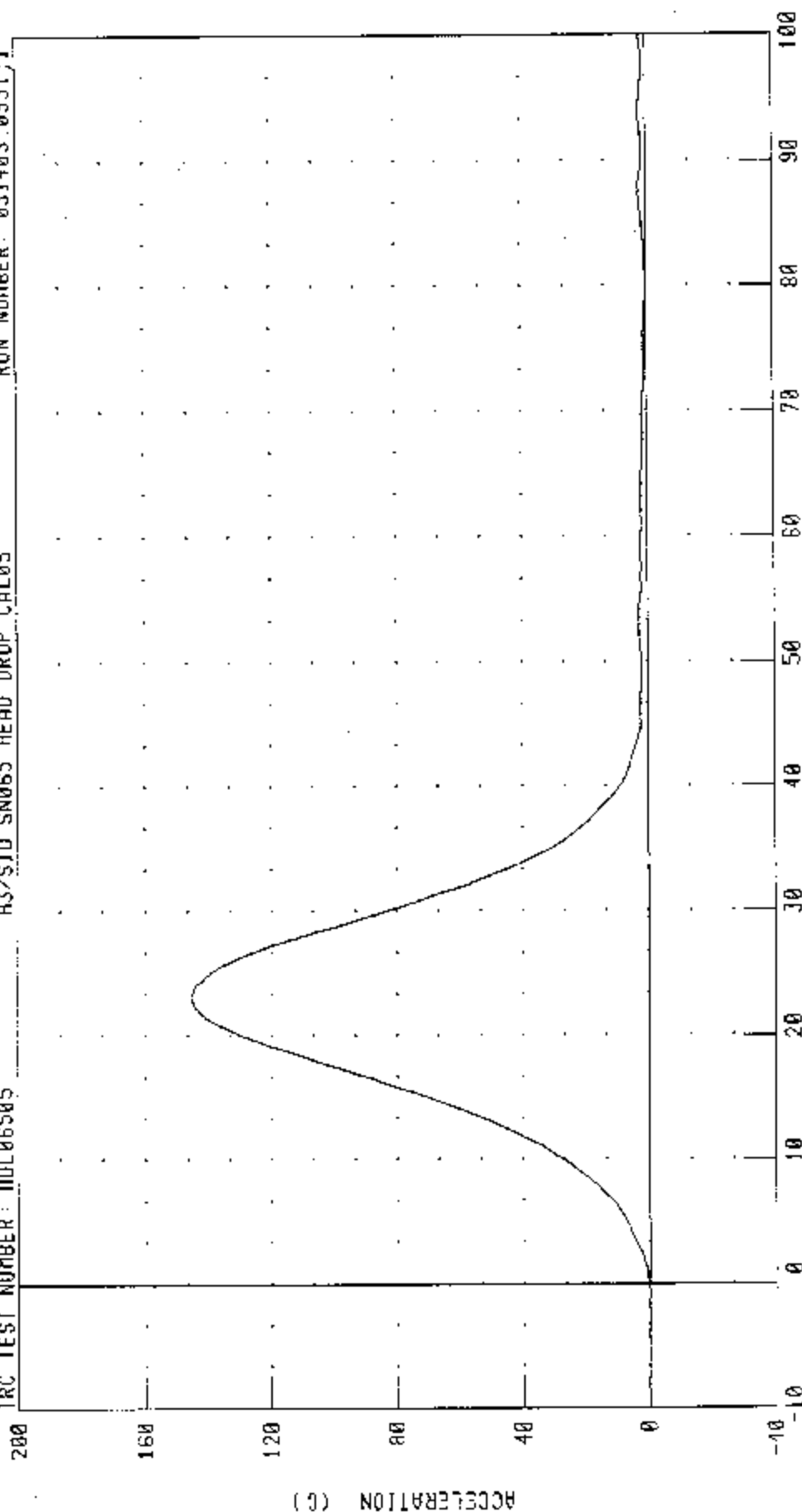
BIOSID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD RESULTANT ACCELERATION

H3/SID SN065 HEAD DROP CAL05

TRC TEST NUMBER: HDL06505

RUN NUMBER: 031403.0931.1



CHANNEL: HEADRC FILTER: CH. CLASS 1000

TRANSPORTATION RESEARCH CENTER INC.

LATERAL NECK TEST

HYBRIDIII SID DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

TRC INC.

TEST NO. NFL06505C

H3/SID SN065 NECK LEFT CAL05

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE		20.6 - 22.2 deg. C	21.67 deg. C
RELATIVE HUMIDITY		10 - 70 %	30.00 %
IMPACT VELOCITY		6.89 - 7.13 M/S	6.99 M/S
INTEGRATED VELOCITY	10 MS	1.96 - 2.55 M/S	2.40 M/S
	20 MS	4.12 - 5.10 M/S	4.73 M/S
	30 MS	5.73 - 7.01 M/S	6.65 M/S
	40 - 70 MS	6.27 - 7.64 M/S	7.16- 7.25 M/S
MAXIMUM MIDSAGGITAL PLANE ROTATION		66 - 82 deg.	68.26 deg.
ROTATION ANGLE DECAY TIME FROM PEAK TO ZERO		58 - 67 MS	58.56 MS
MAXIMUM MOMENT ABOUT OCCIPITAL CONDYLE		73 - 88 NM	81.87 NM
POSITIVE MOMENT DECAY TIME FROM PEAK TO ZERO		49 - 64 MS	49.52 MS
TIME OF MAXIMUM ROTATION AFTER MAXIMUM MOMENT		2 - 16 MS	10.16 MS

TEST MEETS SPECIFICATIONS

TECHNICIAN

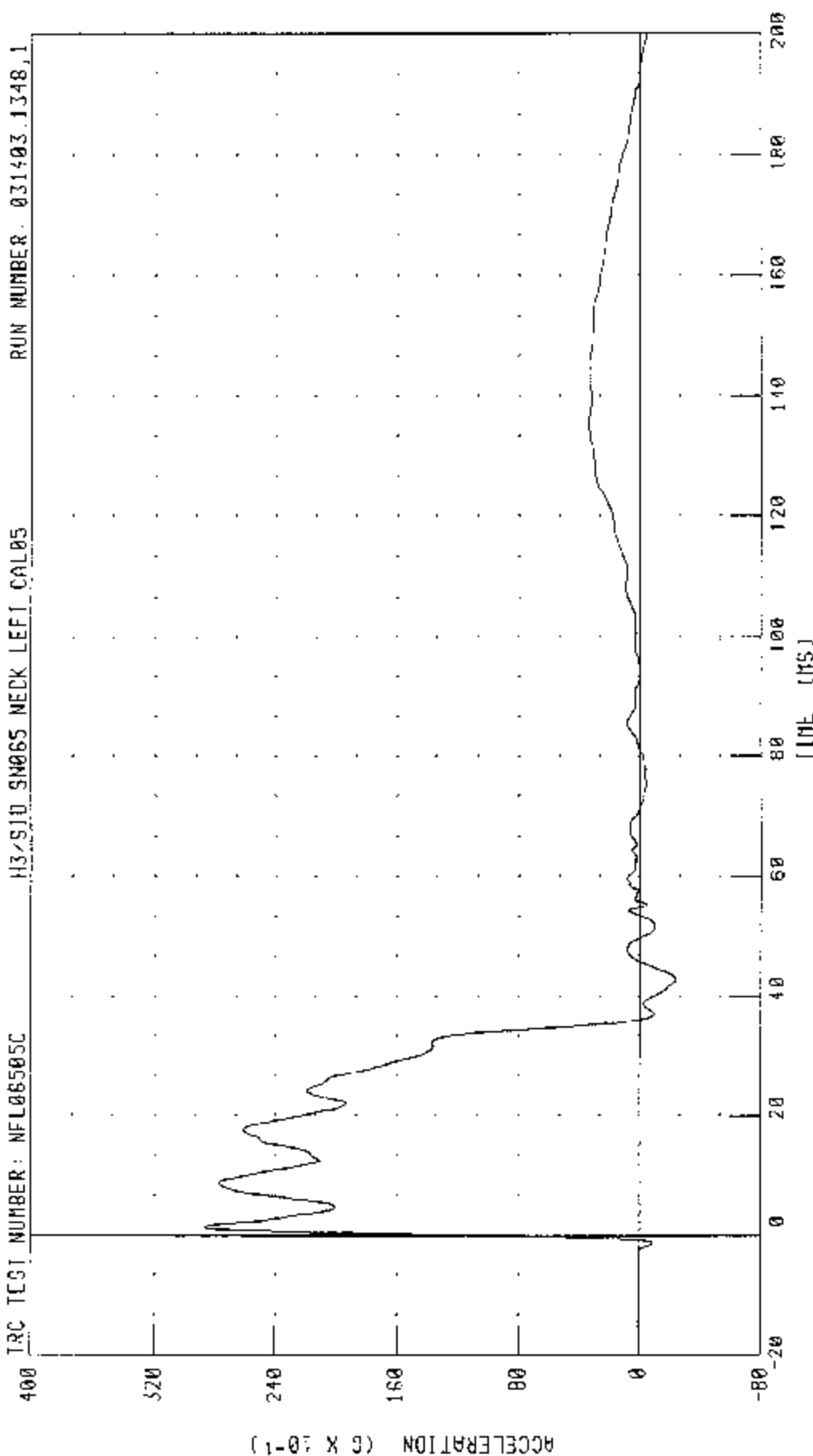


RUN NUMBER: 031403.1346;1

H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

PENDULUM DECELERATION

TRC TEST NUMBER: NFL06505C H3/S10 SN065 NECK LEFT CAL05 RUN NUMBER: 031403.1348.1



PEAK DATA: 28 72 G @ 1 36 MS, -2 44 G @ 42 88 MS

CHANNEL PENXG FILTER CH. CLASS 180

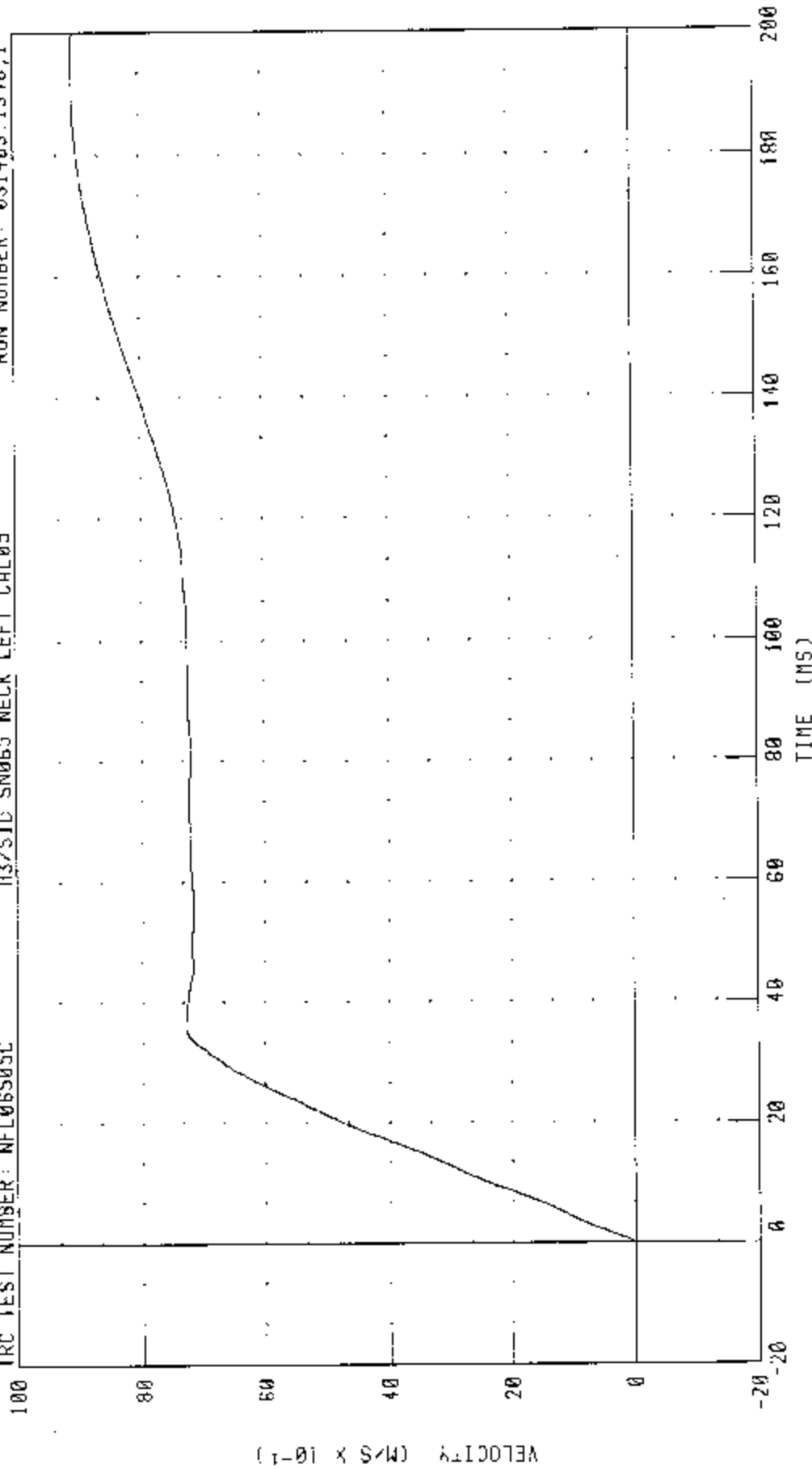
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

INTEGRATED PENDULUM VELOCITY

H3/S10 SN065 NECK LEFT CAL05

RUN NUMBER: 031403.1348.1

TRC TEST NUMBER: NFL06505C



PEAK DATA: 9 08 M/S @ 102.00 MS; -0 01 M/S @ -0 80 MS

CHANNEL: PENXVI FILTER: CIL CLASS 1B0

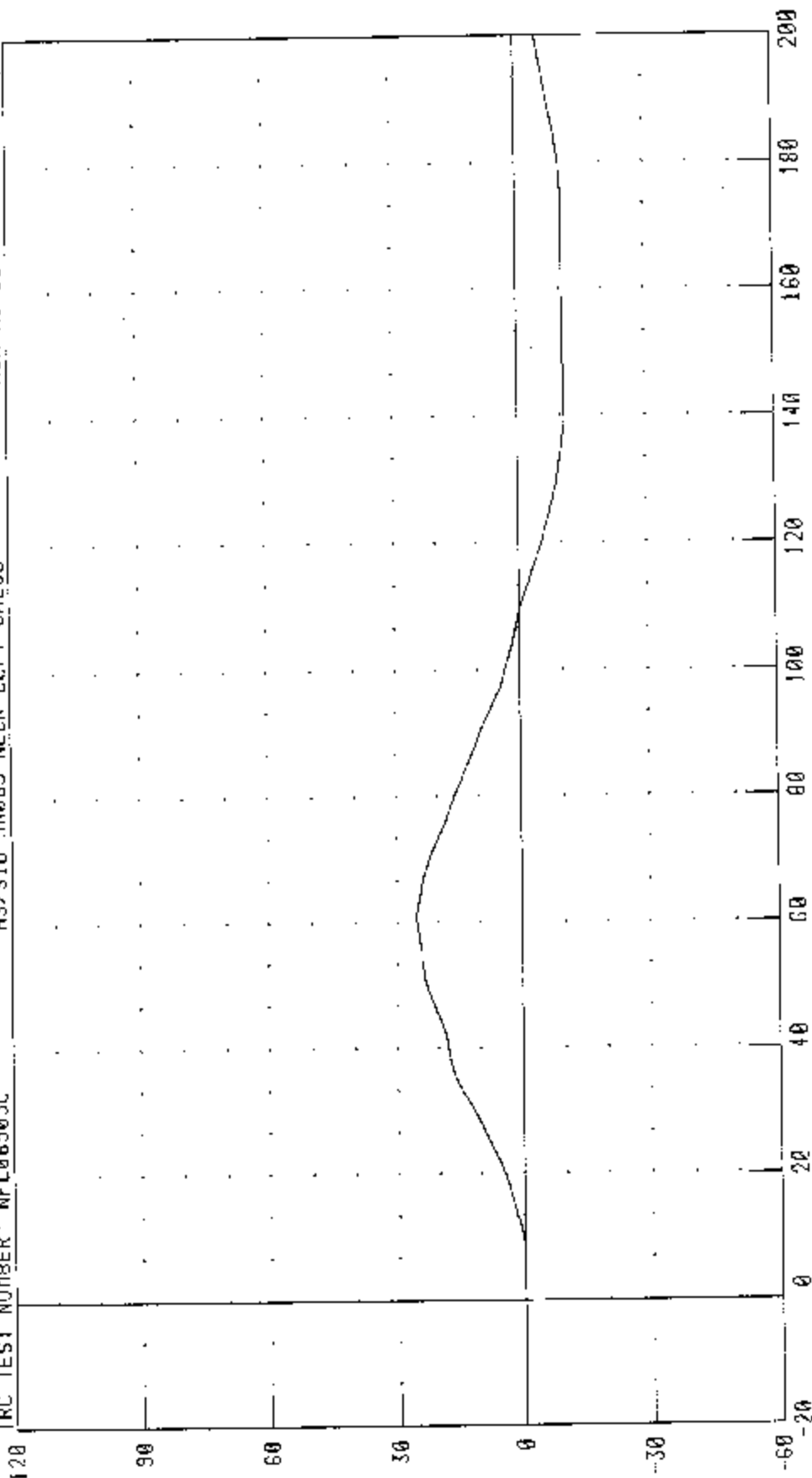
H3/S10 DUMMY CALIBRATION -- LEFT LAIFRAL NECK TEST

ROTATION ABOUT BASE OF NECK

H3/S10 SN065 NECK LEFT CAL05

RUN NUMBER: 031403.1348.1

TRC TEST NUMBER: NPL06505C



ANGLE (°)

TIME (MS)

CHANNL: BETA FILTER: CII. CLASS 60

PLK DATA: 25 24 ° @ 60 96 MS, -11.02 ° @ 143 84 MS

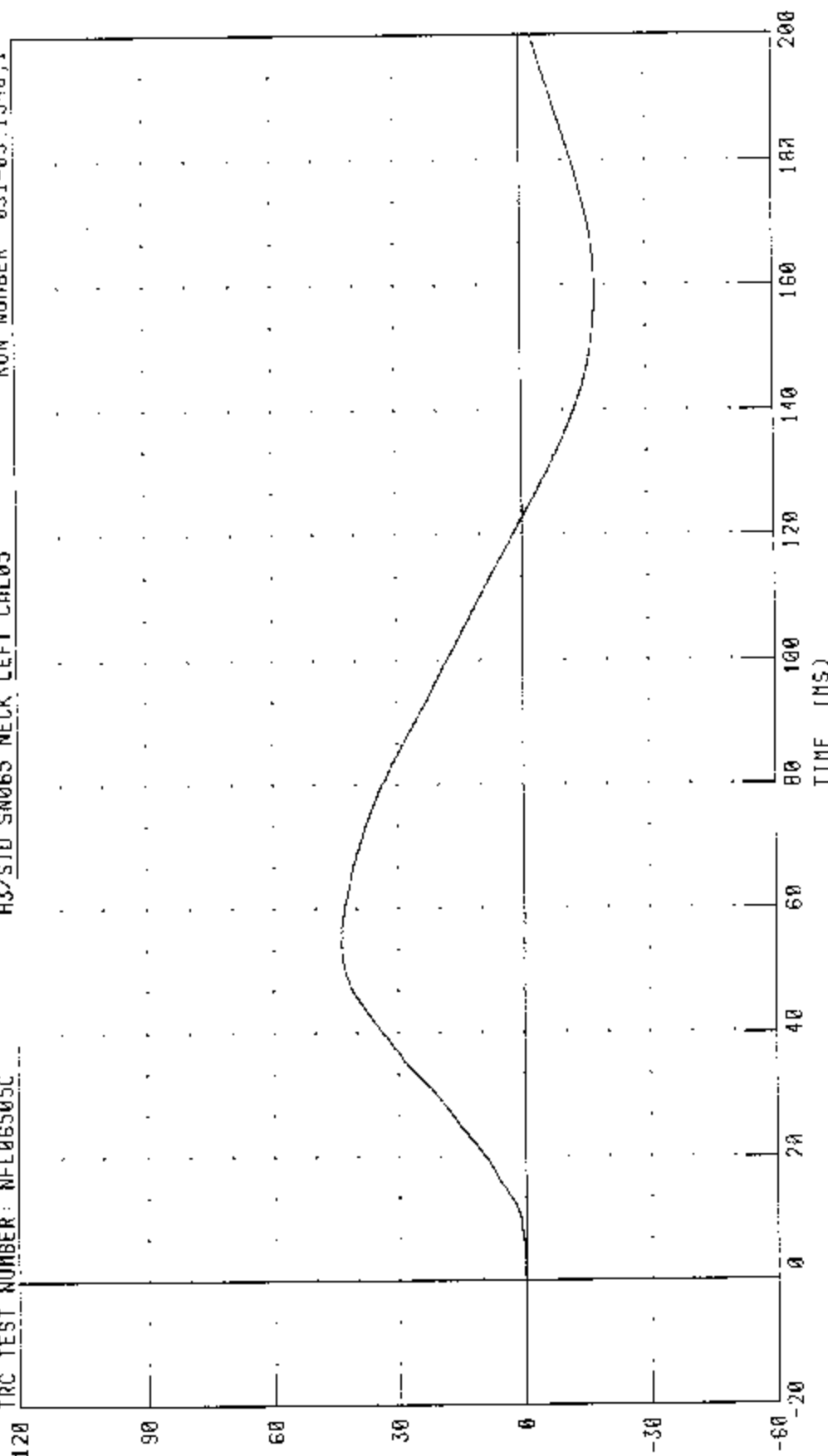
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

ROTATION ABOUT OCCIPITAL CONDYLE

H3/SID SN065 NECK LEFT CAL05

TRC TEST NUMBER: NFL06505C

RUN NUMBER: 031403.1348;1



PEAK DATA: 43.65 ° @ 54.80 MS; -17.55 ° @ 158.80 MS

CHANNEL THETA FILTER CH CLASS 50

ANGLE (°)

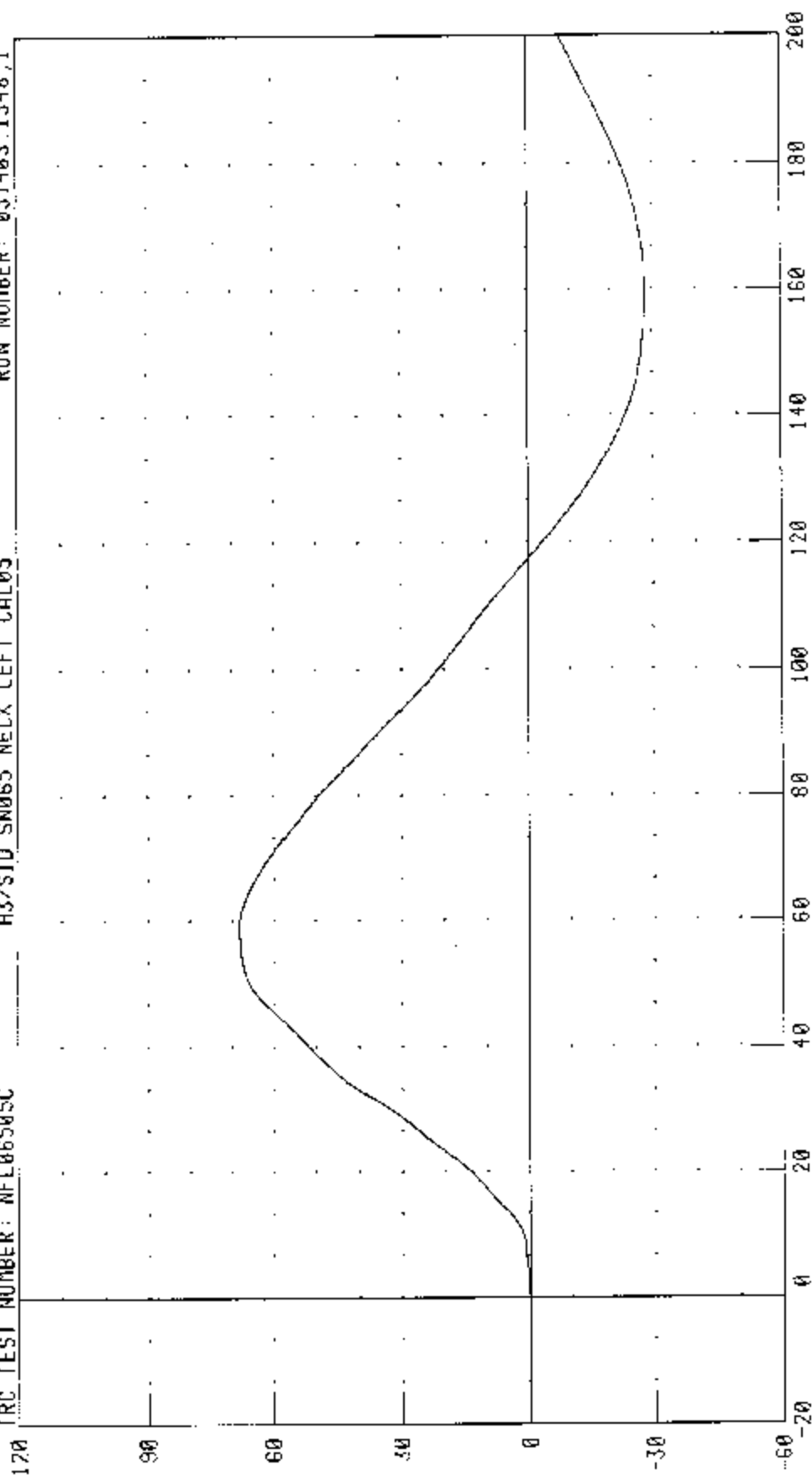
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

TOTAL ROTATION

RUN NUMBER: 031403.1348.1

H3/SID SN065 NECK LEFT CAL05

TRC TEST NUMBER: NFL06505C



TIME (MS)

PEAK DATA: 68.26 ° @ 58.96 MS; -20.20 ° @ 158.90 MS

CHANNEL: TOTAN FILTER: CH CLASS 60

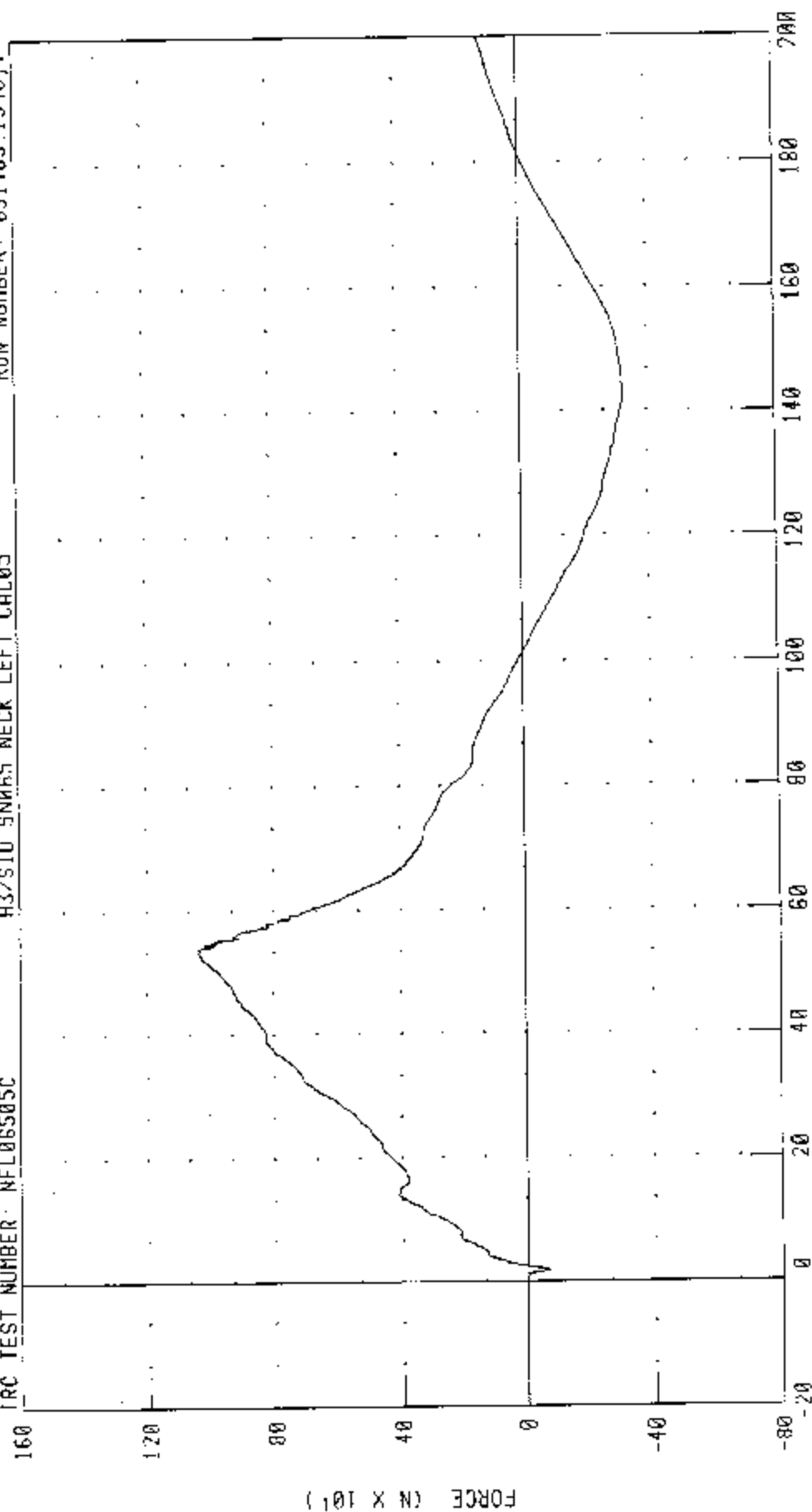
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

NECK FORCE Y AXIS

H3/S10 SNARE NECK LEFT CAL05

RUN NUMBER: 031403.1348.1

IRC TEST NUMBER: NFL06505C



TIME (MS)

PEAK DATA 1036 67 N @ 53.92 MS; -J25.63 N @ 143.36 MS

CHANNEL: NFXY FILTER: CH CLASS 1000

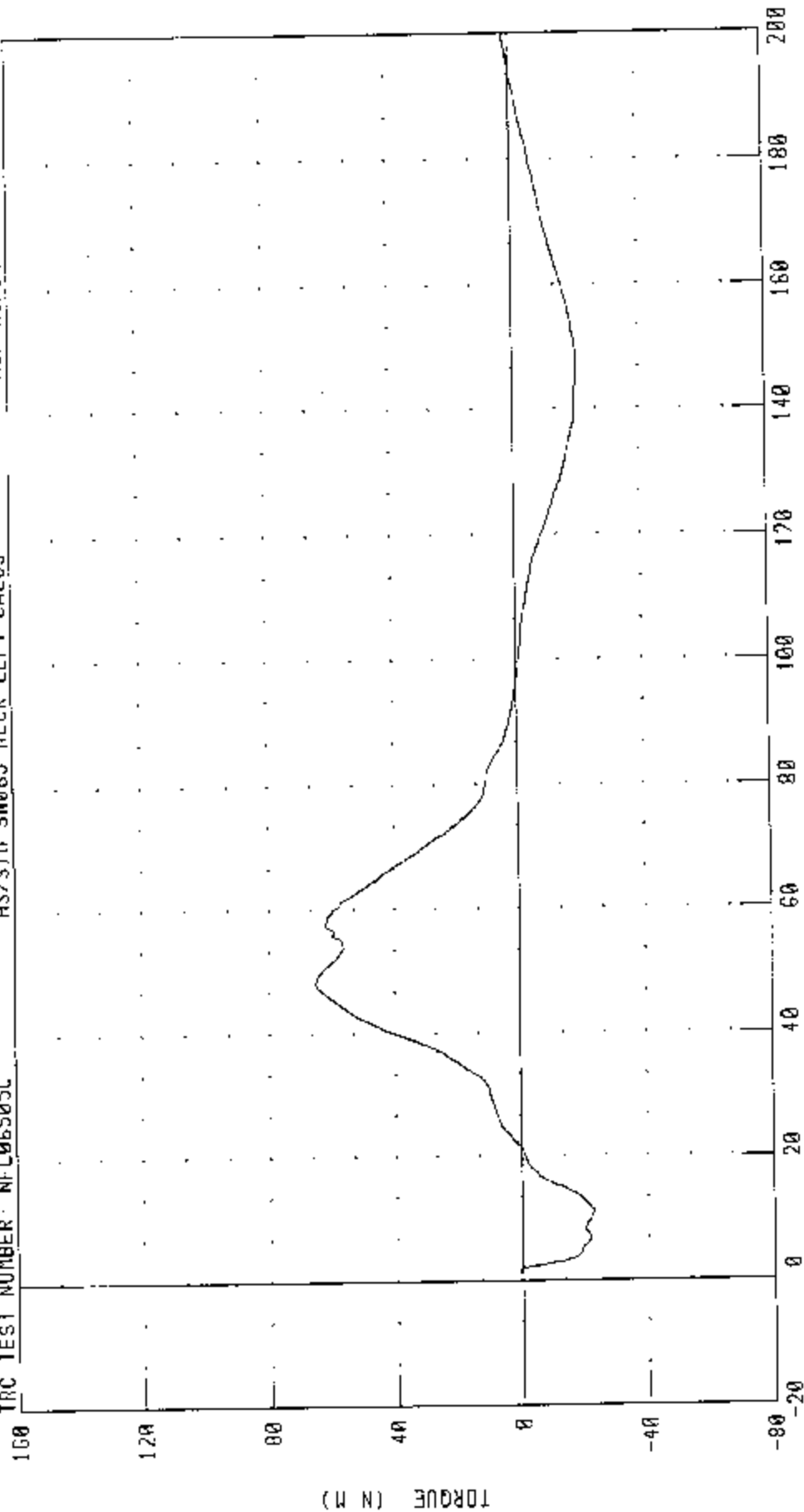
H3/S10 DUNHY CALIBRATION -- LEFT LATFRAL NECK TEST

NECK MOMENT X AXIS

RUN NUMBER: 031403.1348.1

H3/S10 SH065 NECK LEFT CAL05

TRC TEST NUMBER: NFL06505C



TIME (MS)

PEAK DATA 55.17 N M 0 48.00 MS; -23 04 N M 0 11 04 MS

CHANNEL: NEKXN FILTER: CIL CLASS 600

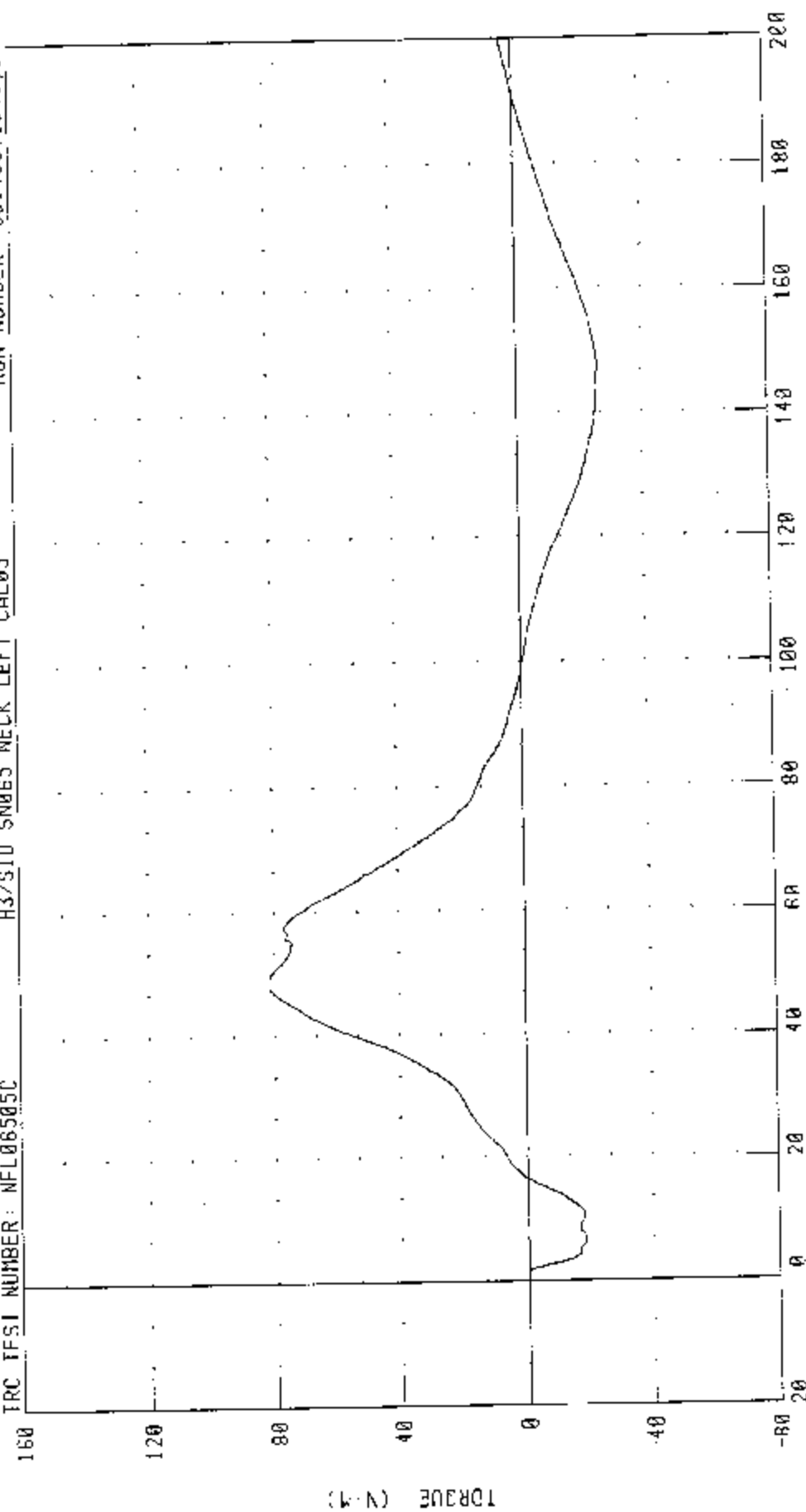
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

TOTAL MOMENT ABOUT OCCIPITAL CONDYLE

RUN NUMBER: 031403.1340.1

H3/SID SN065 NECK LEFT CAL05

TRC TEST NUMBER: NFL06505C



CHANNEL: NFKOM FILTER: CIL CLASS 600

PEAK DATA: 81.87 N M @ 48.80 MS, 25.71 N M @ 147.20 MS

TRANSPORTATION RESEARCH CENTER INC.

THORACIC SHOCK ABSORBER TESTS

SIDE IMPACT DUMMY

03-FEB-03

TRC INC.

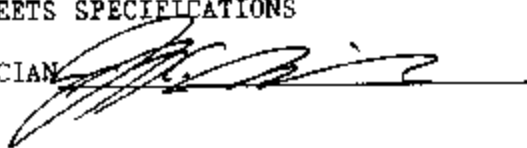
572F SNO65 DAMPER TEST CAL02

TEST NUMBERS: DP06502A, DP06502B, DP06502C

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE		18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY		10 - 70 %	46.0 %
VELOCITY	FORCE	667 - 925 N	791 N
2.71 M/S	DISPLACEMENT	29.7 - 34.5 MM	31.1 MM
VELOCITY	FORCE	1706 - 2072 N	1715 N
4.24 M/S	DISPLACEMENT	31.6 - 37.2 MM	36.5 MM
VELOCITY	FORCE	3784 - 4495 N	4243 N
6.12 M/S	DISPLACEMENT	33.3 - 39.6 MM	37.2 MM

DAMPER SETTING = 5.5

TEST MEETS SPECIFICATIONS

TECHNICIAN 

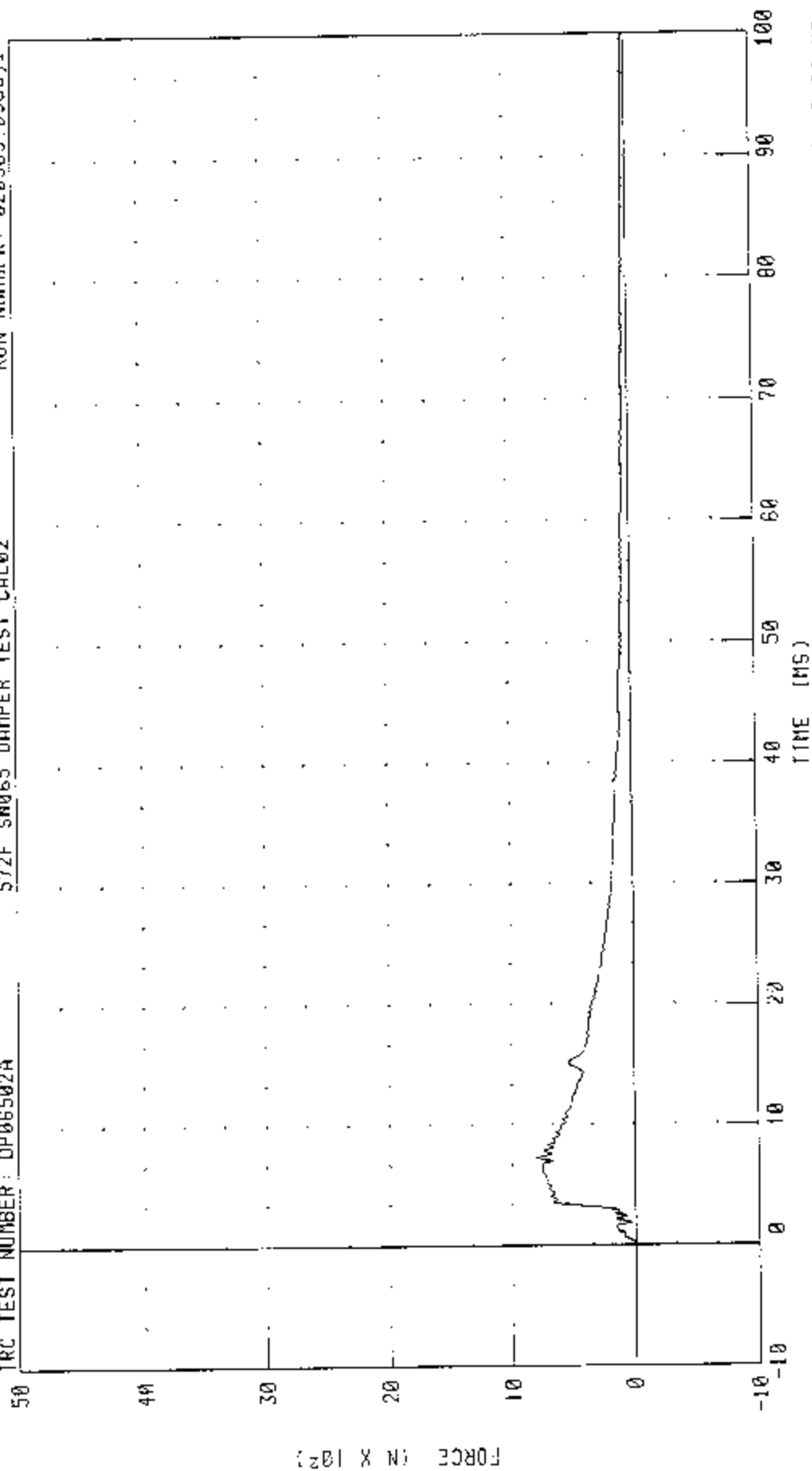
RUN NUMBER: 020303.0805;1

PART 572-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (3.0 N/SEC)

SHOCK ABSORBER RESISTIVE FORCE

572F SN065 DAMPER TEST CAL02 RUN NUMBER: 020303.0806;1

TRC TEST NUMBER: DP06502A



PEAK DATA: 790 76 N 0 7 35 MS, -1.99 N 0 -6 96 MS

CHANNEL: DAMPT FILTER: CR. CLASS 1000

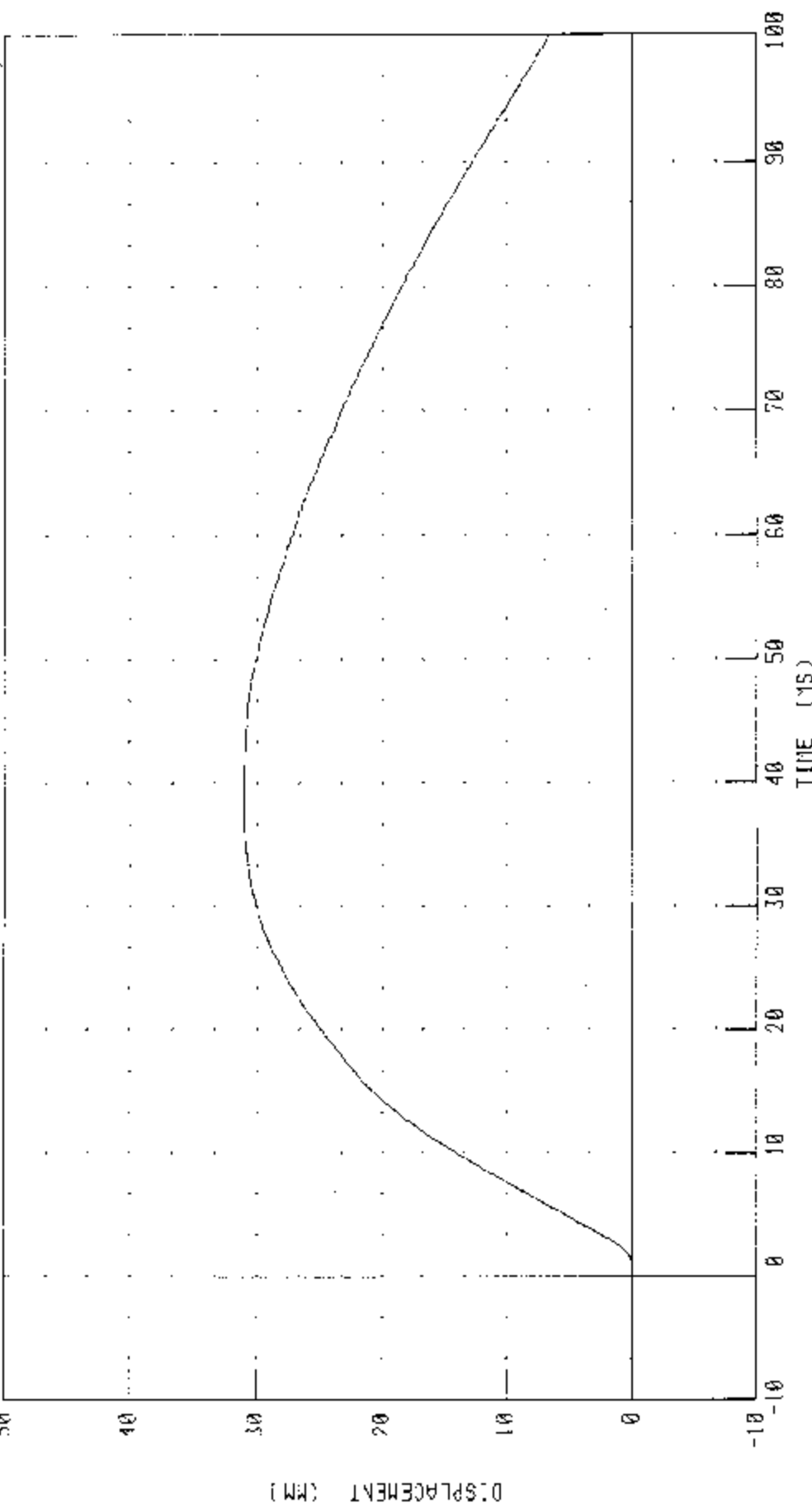
PART 572-F 5 J D. THORACIC SHOCK ABSORBER CALIBRATION (3 0 N/SEC)

SHOCK ABSORBER DISPLACEMENT

RC TEST NUMBER: DP06502A

572F SN065 DAMPER TEST CAL02

RLN NUMBER: 020303.0806,1



PEAK DATA: 31 00 MM @ 37.76 MS; 0 00 MM @ -8.00 MS

CHANNEL: CSTYU FILTER: CN. CLASS 1000

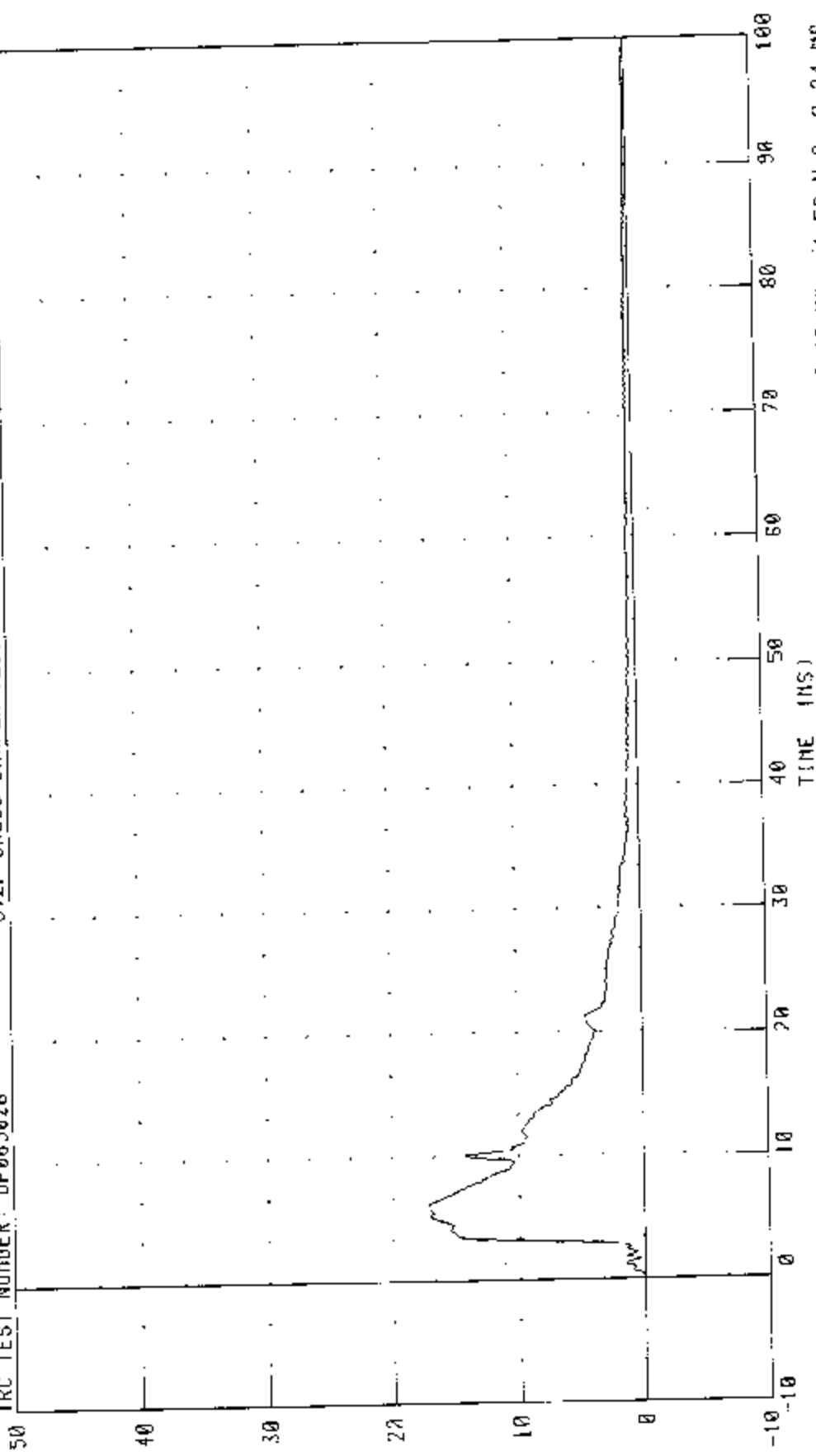
PART 512-F S I D. THURACIC SHOCK ABSORBER CALIBRATION (4 3 N/SEC)

SHOCK ABSORBER RESISTIVE FORCE

RUN NUMBER: 020303.0006.1

572F SN065 DAMPER TEST CAL02

IRC TEST NUMBER: DP065026



TIME (MS) PEAK DATA: 1714 69 N @ 6.16 MS; -1 52 N @ -8.24 MS

CHANNEL: DAMPF FILTR: CH CLASS 1000

FORCE (N X 10²)

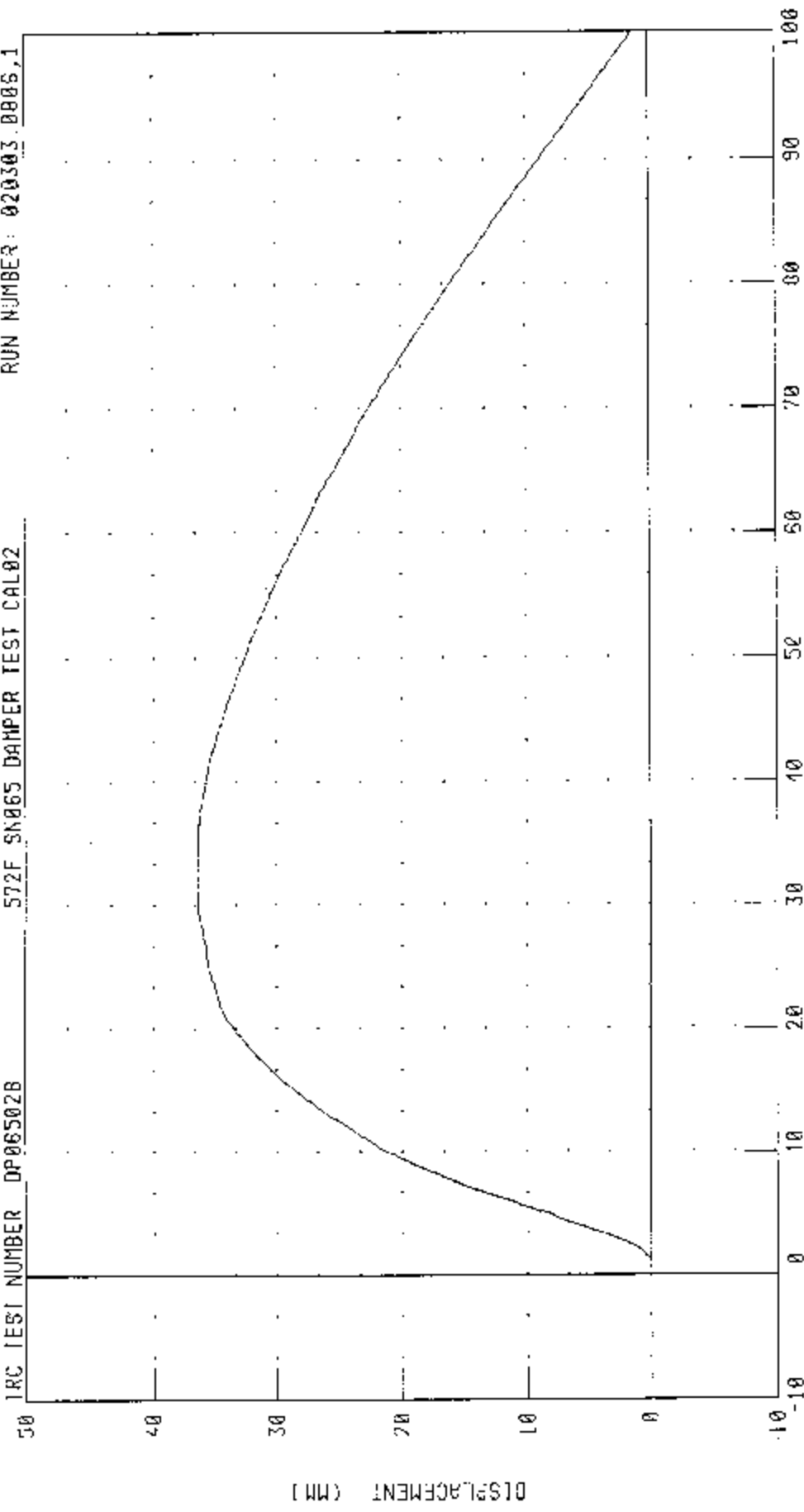
PART 572-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (4.3 M/SEC)

SHOCK ABSORBER DISPLACEMENT

RUN NUMBER: 020303.0005.1

572F SN065 DAMPER TEST CAL02

IRC TEST NUMBER DP06502B



TIME (MS)

PEAK DATA: 36.48 MM @ 31.44 MS; -0.01 MM @ -2.00 MS

CHANNEL: C-STYD FILIER CH. CLASS 1000

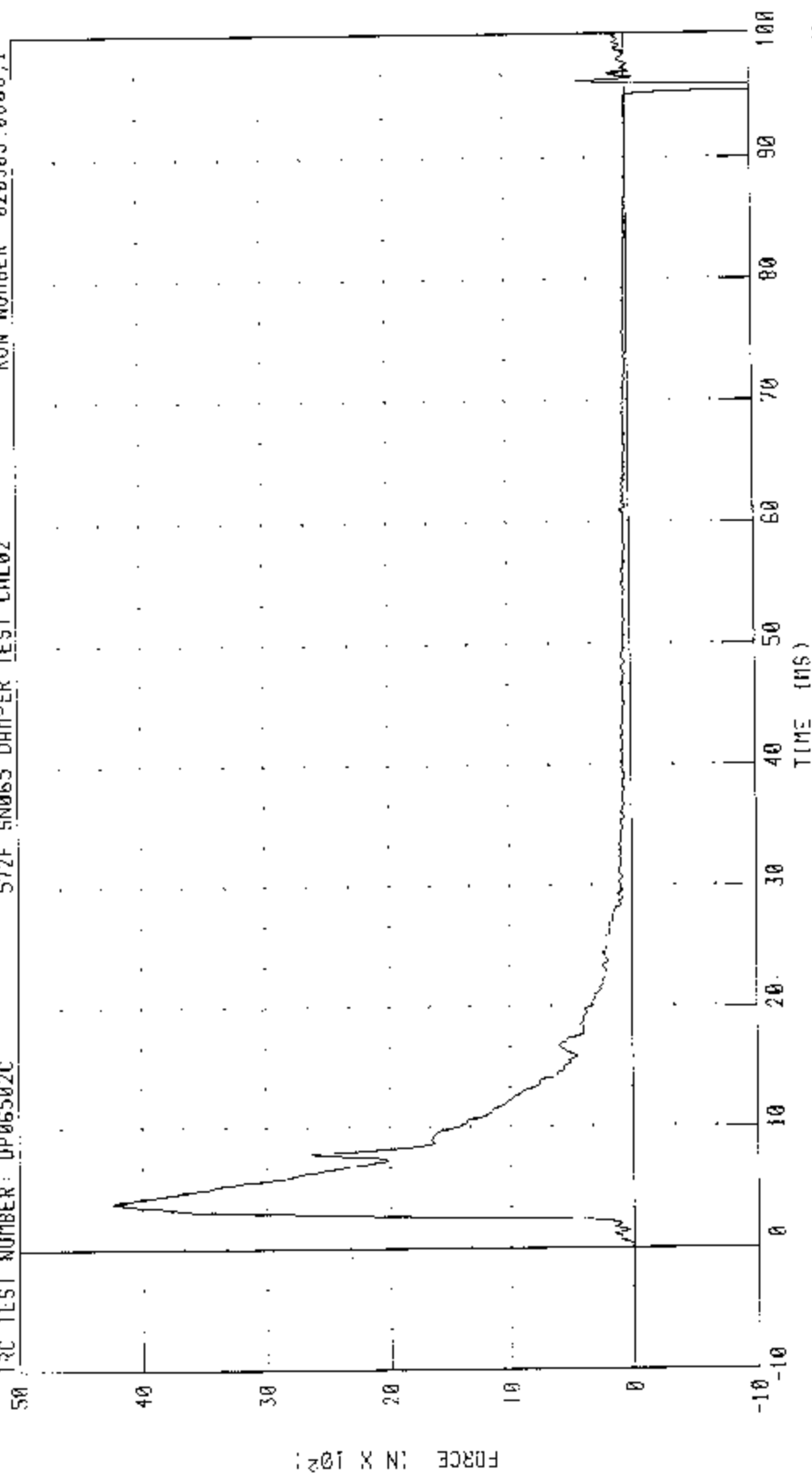
PART 572-F S.I.D. HYDRAULIC SHOCK ABSORBER CALIBRATION (6.1 N/SEC)

SHOCK ABSORBER RESISTIVE FORCE

572F SN065 DAMPER TEST CAL02

IRCI TEST NUMBER: DP06502C

RUN NUMBER: 020303.0806;1



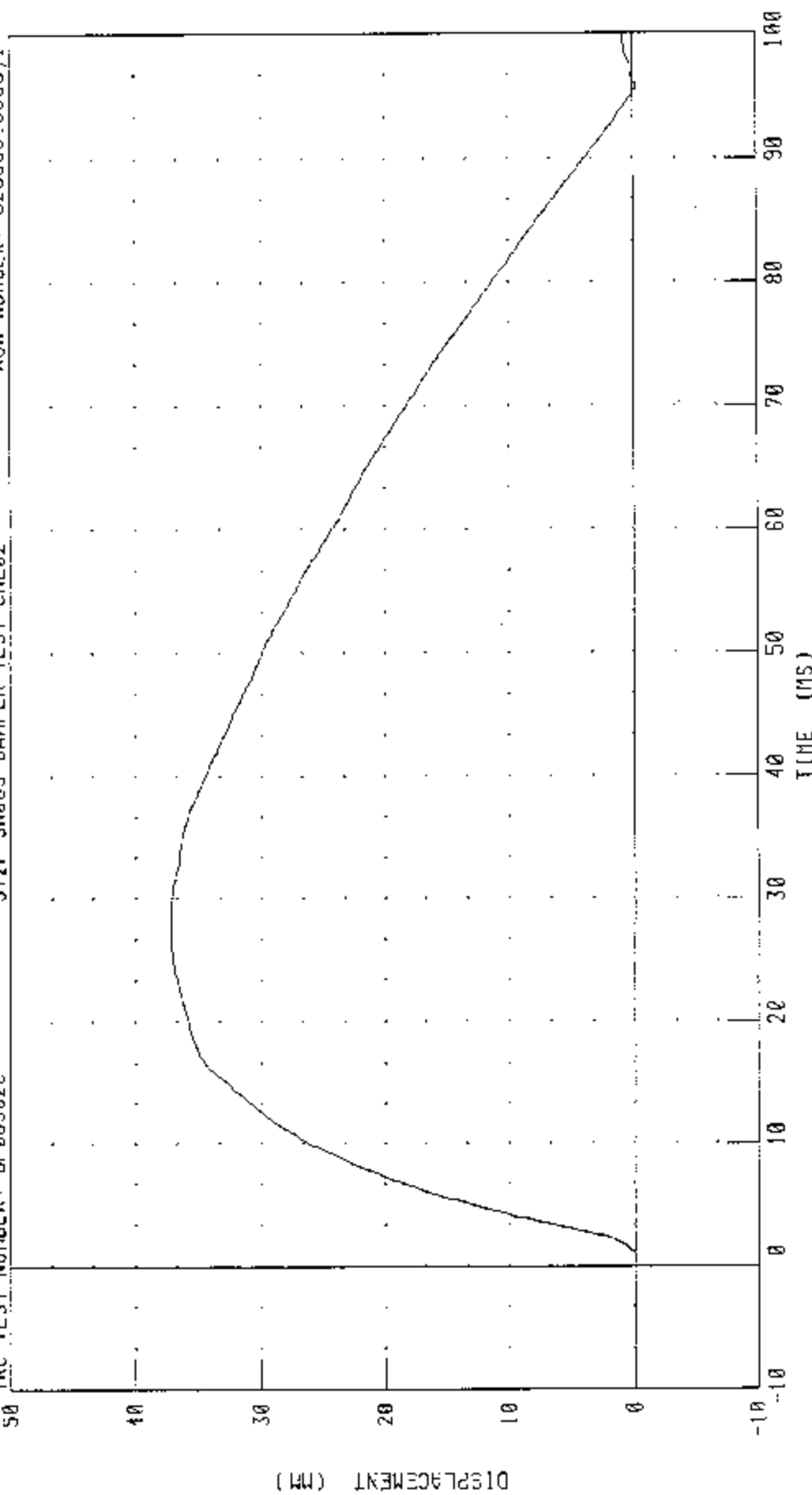
PEAK DATA: 4243.19 N @ 3.76 MS; -1146.15 N @ 95.60 MS

CHANNEL: DAMPF FILTER: CII CLASS 1000

PART 572-F S.I.D. THORACIC SHOCK ABSORBER CALIBRATION (6.1 N/SEC)

SHOCK ABSORBER DISPLACEMENT

TRC TEST NUMBER: DP06502C 572F SN065 DAMPER TEST CAL02 RUN NUMBER: 020303.0006.1



CHANNEL: CSTVC FILTER: CH CLASS 1000

PEAK DATA: 37.18 MS @ 28.80 MS, 0.26 MP @ 95.68 MS

TRANSPORTATION RESEARCH CENTER INC.

LATERAL THORAX IMPACT TEST

SIDE IMPACT DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

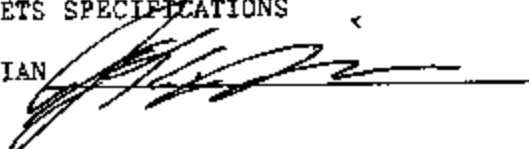
TRC INC.

TEST NO: STL06505

572F SID SN065 L.THORAX CAL05

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	44.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.28 M/S
PEAK ACCELERATION: UPPER RIB BAR	37 - 46 G	40.7 G
PEAK ACCELERATION: LOWER RIB BAR	37 - 46 G	39.8 G
PEAK ACCELERATION: LOWER THORACIC SPINE	15 - 22 G	19.4 G

TEST MEETS SPECIFICATIONS

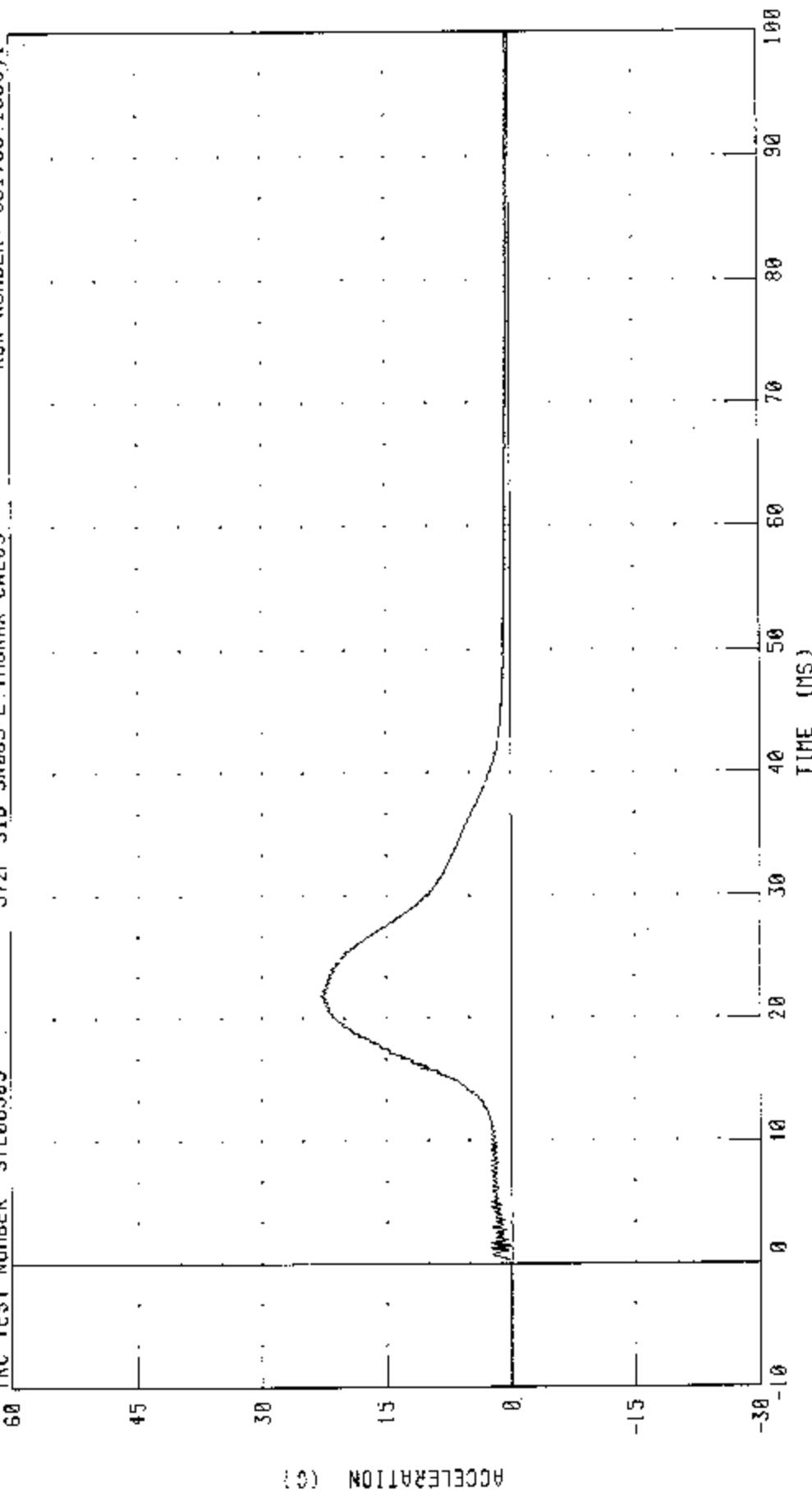
TECHNICIAN 

RUN NUMBER: 031703.1304;1

PART 572-F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION

TRC TEST NUMBER: STL06505 572F SID SN065 L THORAX CAL05 RUN NUMBER: 031703.1306.1



PEAK DATA: 22.79 G @ 21.97 MS; 0.02 G @ -9.52 MS

CHANNEL: PENXC FILTER: VII. CLASS 1000

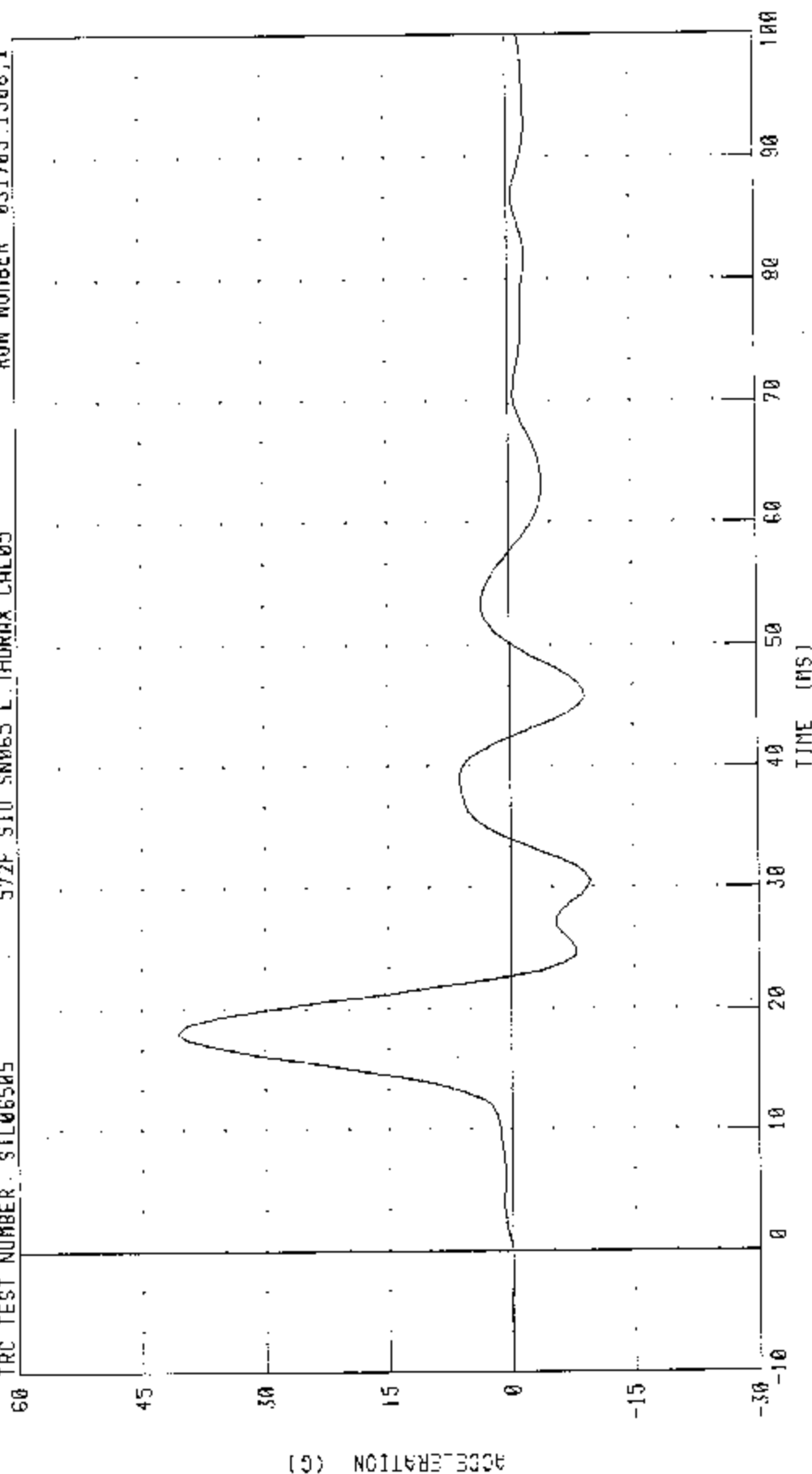
PART 572-F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LEFT UPPER RIB ACCELERATION Y AXIS

TRC TEST NUMBER: 51106505

572F S10 SN065 L THORAX CAL05

RUN NUMBER: 031703.1306;1



CHANNEL: LURYG FILTER: FIR 100

PEAK DATA 18 72 0 18.13 MS; -9.64 0 0 30 62 MS

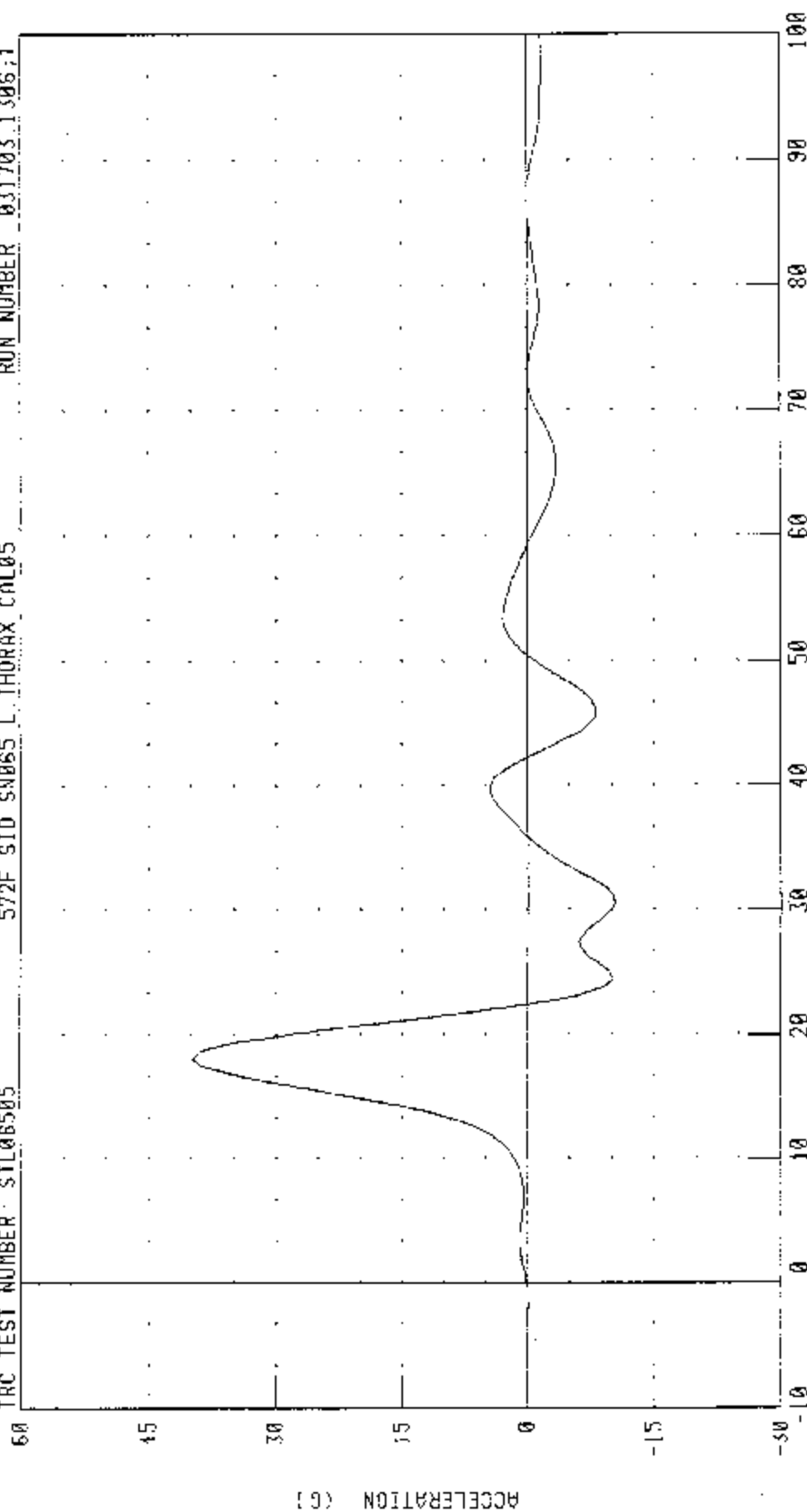
PART 572-F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LEFT LOWER RIB ACCELERATION Y AXIS

572F SID SN065 L THORAX CAL05

TRC TEST NUMBER STL06505

RUN NUMBER 031703.130671



CHANNEL: LLRYG FILTER: FIR 100

PEAK DATA 39.81 G @ 18.13 MS; -10.39 G @ 30.62 MS

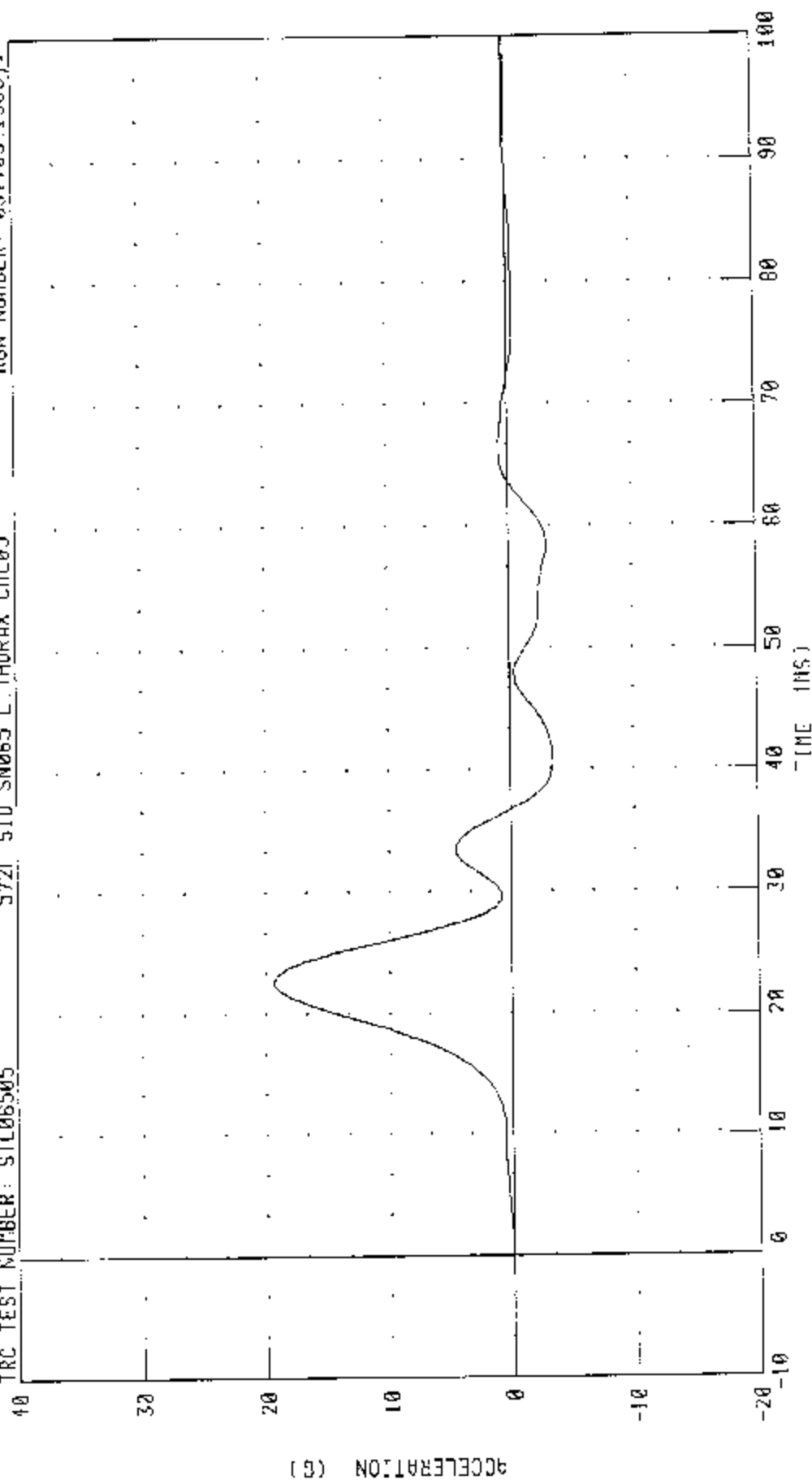
PART 572-F S.I.D. THORAX CALIBRATION (LEFT SIDE IMPACT)

LOWER SPINE ACCELERATION Y AXIS

572F SID SN065 L THORAX CAL05

TRC TEST NUMBER: STL06505

RUN NUMBER: 031703.1306.1



CHANNEL: T12YC

FILTER: FIR 100

PEAK DATA: 19.41 G @ 22.50 MS; -3.46 G @ 40.63 MS

Transportation Research Center Inc.

572B Abdomen Compression Test

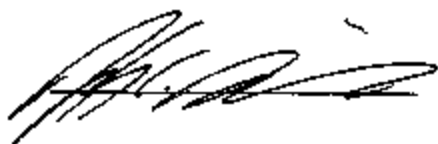
HIII SID Serial No. 065 Calibration No. 05 - 1

Test Date 02/27/2003

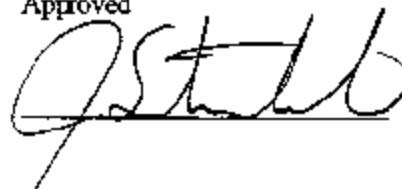
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.7 °C	Yes
Relative Humidity	10 - 70 %	30 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.1 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Comments:

Technician



Approved



03.17.2003 13:09:46 107

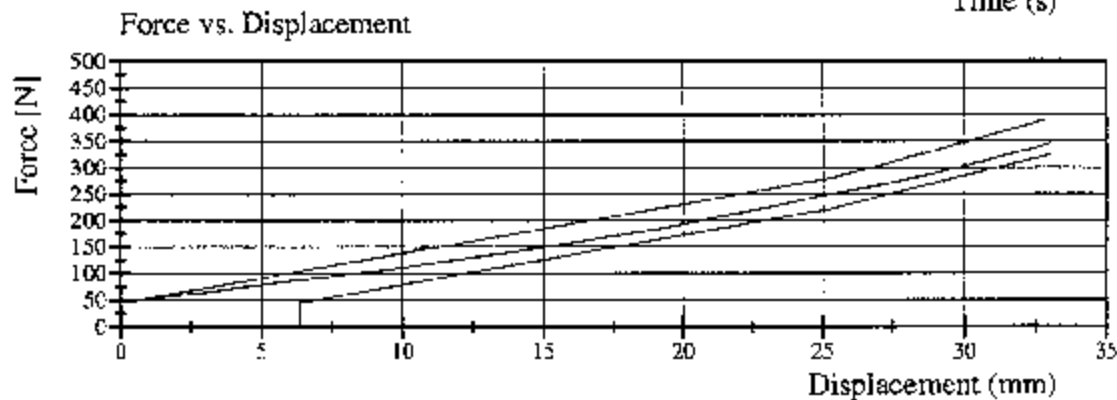
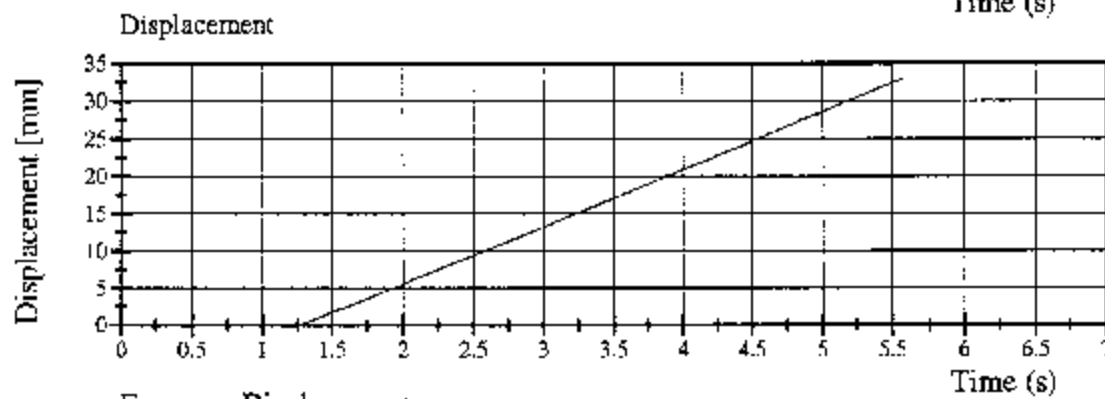
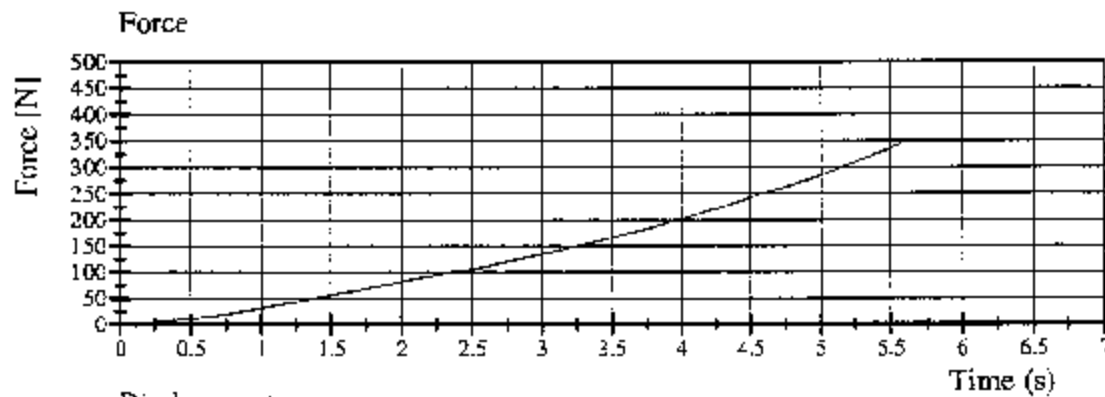


Transportation Research Center Inc.

572B Abdomen Compression Test

HIII STD Serial No. 065 Calibration No. 05 - 1

Test Date 02/27/2003



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 27-Feb-03

TRC, INC.

TEST NO: 063C05TF1

572B SN 065 TORSO FLEX CAL 05

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6 °C	21.1 °C
RELATIVE HUMIDITY	10 - 70 %	30 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	111.2 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	177.9 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	218.0 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	6 °

TEST MEETS SPECIFICATIONS

TECHNICIAN 

TRANSPORTATION RESEARCH CENTER INC.

LATERAL PELVIS IMPACT TEST

SIDE IMPACT DUMMY

14-MAR-03

LEFT SIDE CONFIGURATION

TRC INC.

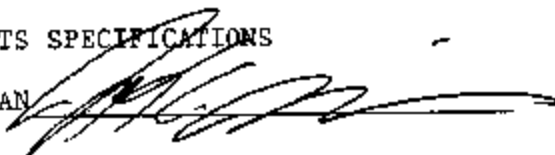
TEST NO: SPL06505

572F SN065 LEFT PELVIS CAL05

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	44.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.28 M/S
PEAK PELVIC ACCELERATION	40 - 60 G	52.1 G
TIME ABOVE 20 G LEVEL	3 - 7 MS	6.0 MS
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

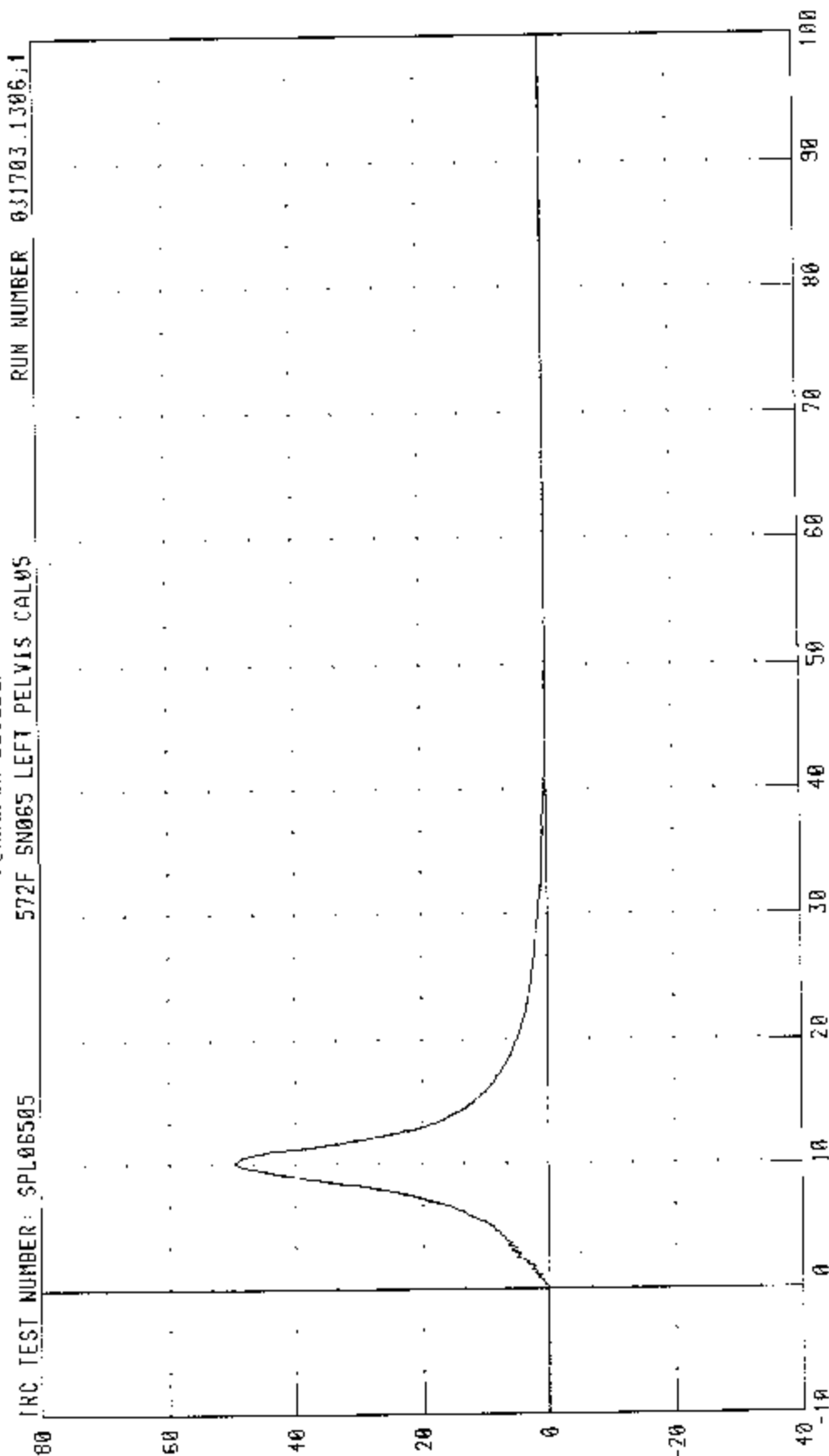
TECHNICIAN



RUN NUMBER: 031703.1305;1

PART 572-F S.I.D. PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION



TIME (MS)

PENK DATA: 49.76 G @ 10 16 MS, 0.22 G @ 63 68 MS

CHIRNNH: PENXC FILTER: CH. CLASS 1000

ACCELERATION (G)

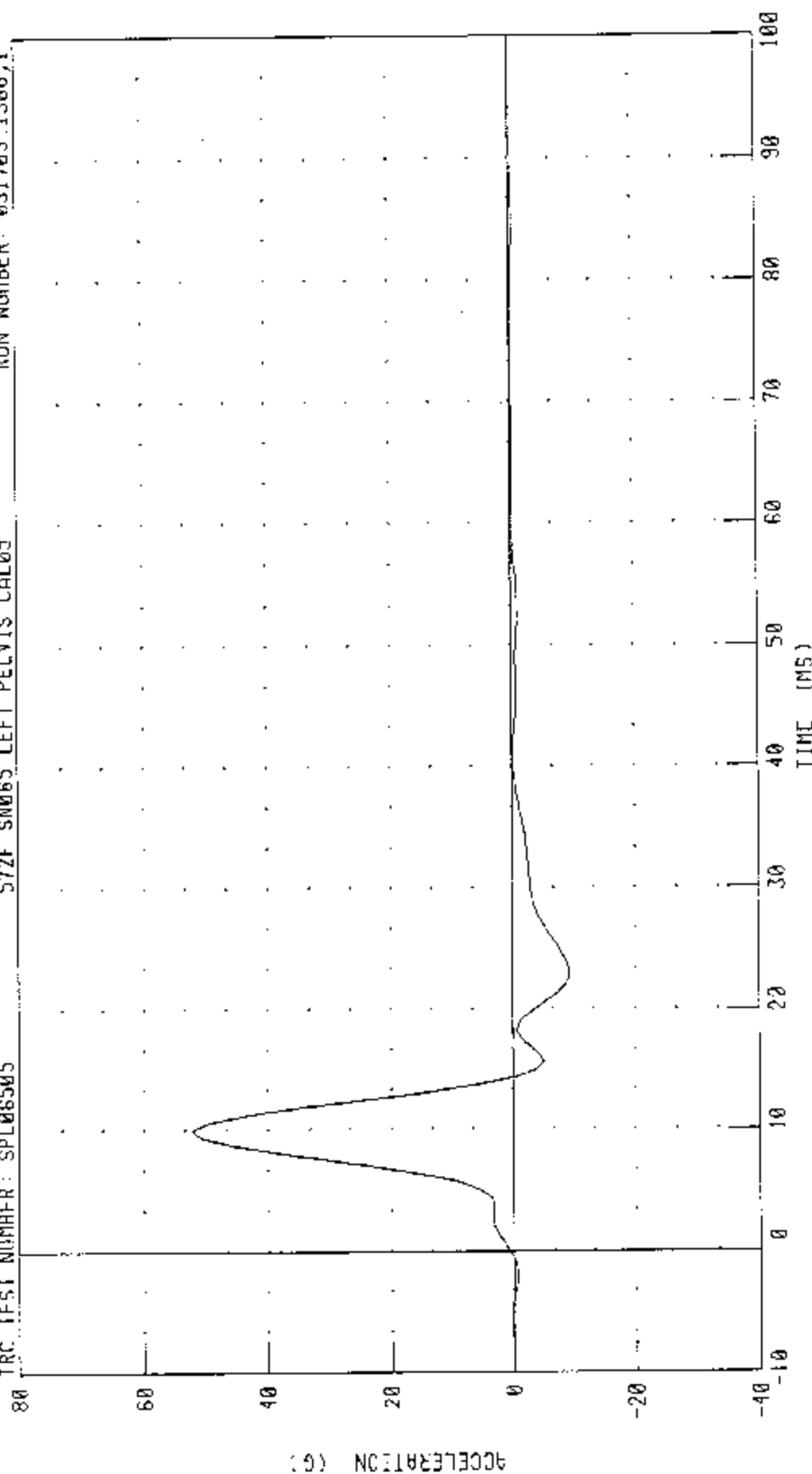
PART 572-F S I D. PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PELVIS ACCELERATION Y AXIS

572F SN065 LEFT PELVIS CAL05

TRC TEST NUMBER: SPL06505

RUN NUMBER: 031703.1306;1



PEAK DATA: 52 06 G @ 10 00 MS, -9.37 G @ 23 15 MS

FILTER: FIR 100

CHANNEL: PEVYC

Calibration Test Results

Post-Test

SID-HIII: 066

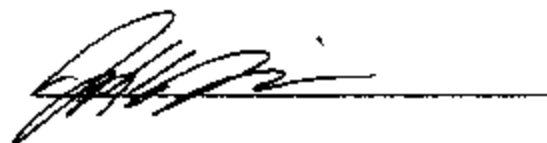
Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.

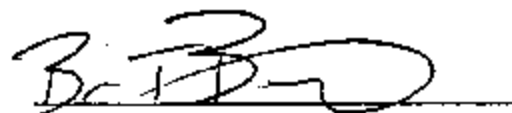
Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No. 066 Calibration No. 06

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	901 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	507 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	236 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	518 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	499 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	387 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	170 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	170 mm	Yes
Difference Between Top & Bottom Rib Width from CL		<= 2.5 mm	0.0 mm	Yes

Technician



Approved




TRANSPORTATION RESEARCH CENTER INC.

LATERAL HEAD DROP TEST

HYBRIDIII SID DUMMY

03-APR-03

LEFT SIDE CONFIGURATION

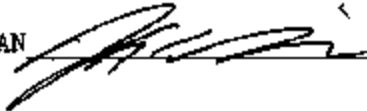
TRC INC.

TEST NO. HDL06606

H3/SID SN066 HEAD DROP CAL06

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6 deg. C	21.67 deg. C
RELATIVE HUMIDITY	10 - 70 %	44.00 %
PEAK RESULTANT ACCELERATION	120 - 150 G	135.92 G
PEAK LONGITUDINAL ACCELERATION	15 G MAX	-8.38 G
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 040303.1124;1

810510 DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION X AXIS

RUN NUMBER: 040303.1124.1

H3/S10 SN066 HEAD DROP CAL06

TRC TEST NUMBER: H0L06606

120

80

40

0

-40

-80

-120

ACCELERATION (G)

-120

-80

-40

0

40

80

120

10

20

30

40

50

60

70

80

90

100

TIME (MS X 10⁻¹)

PEAK UNITS: 2 68 G @ 4.00 MS, --B 38 G @ 7 16 MS

CHANNEL: HEDXC FILTER: CH. CLASS 1000

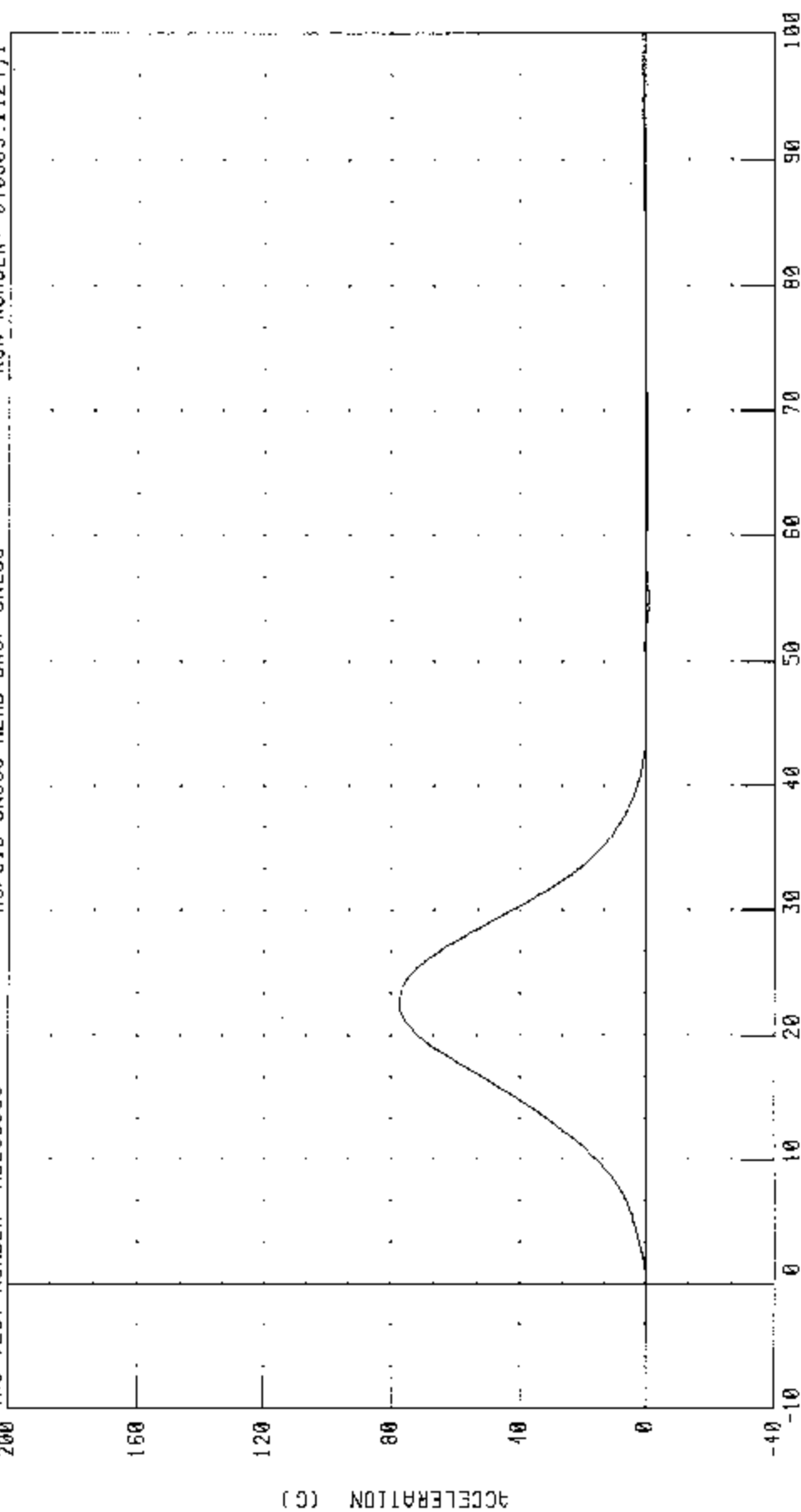
810SID DUMMY CALIBRATION ... 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Y AXIS

RUN NUMBER: 040303.1124.1

H3/SID SN066 HEAD DROP CAL06

TRC TEST NUMBER: HDL06606



TIME (MS X 10⁻¹)

PEAK DATA: 77.31 G @ 2.24 MS; -0.98 G @ 5.52 MS

CHANNEL: HEDYC FILTER: CH CLASS 1000

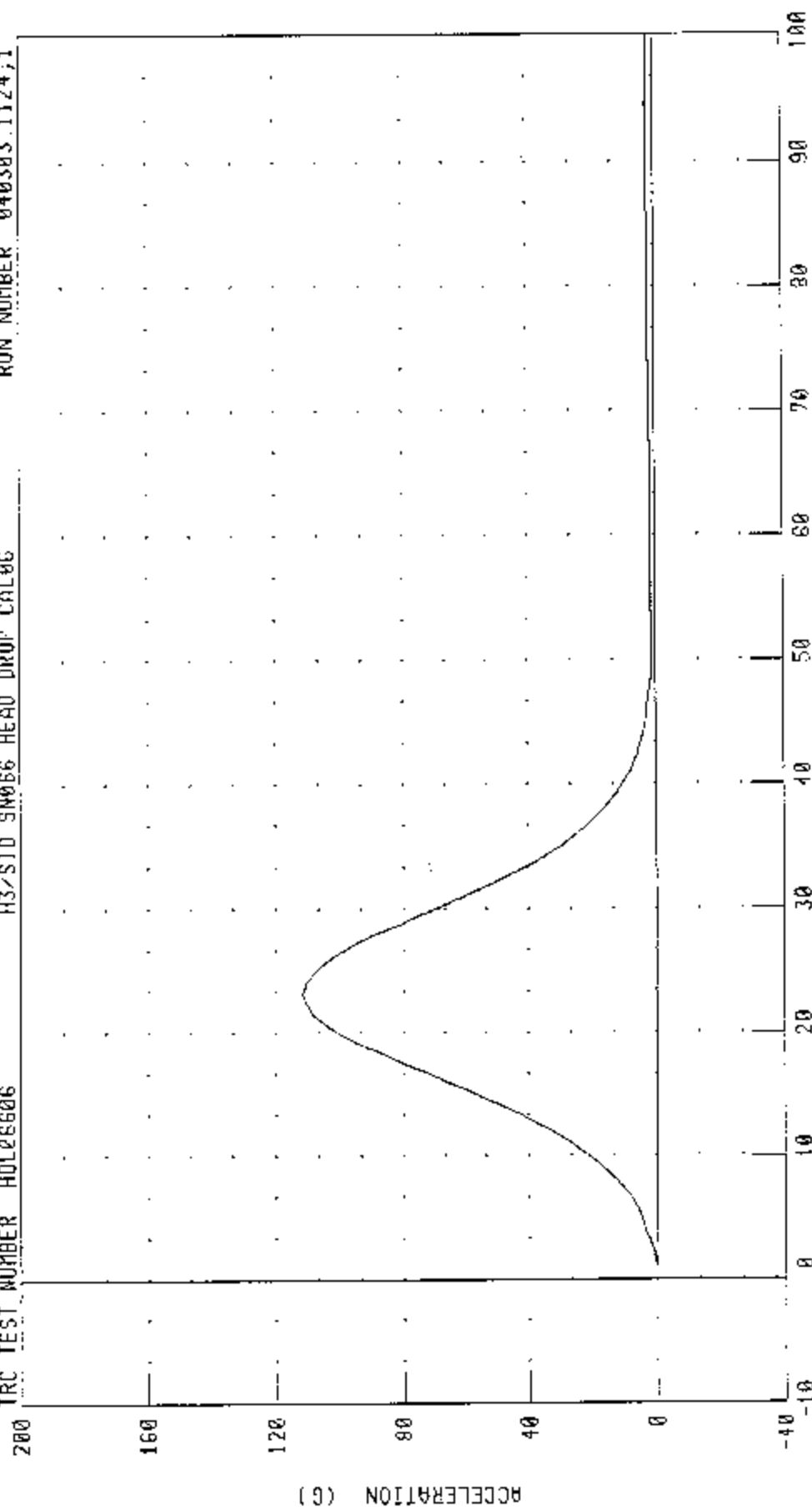
810S10 DUMMY CALIBRATION ... 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Z AXIS

RUN NUMBER 040303.1124;1

H3/S10 SN066 HEAD DROP CAL06

TRC TEST NUMBER H0106606



TIME (MS X 10⁻¹)

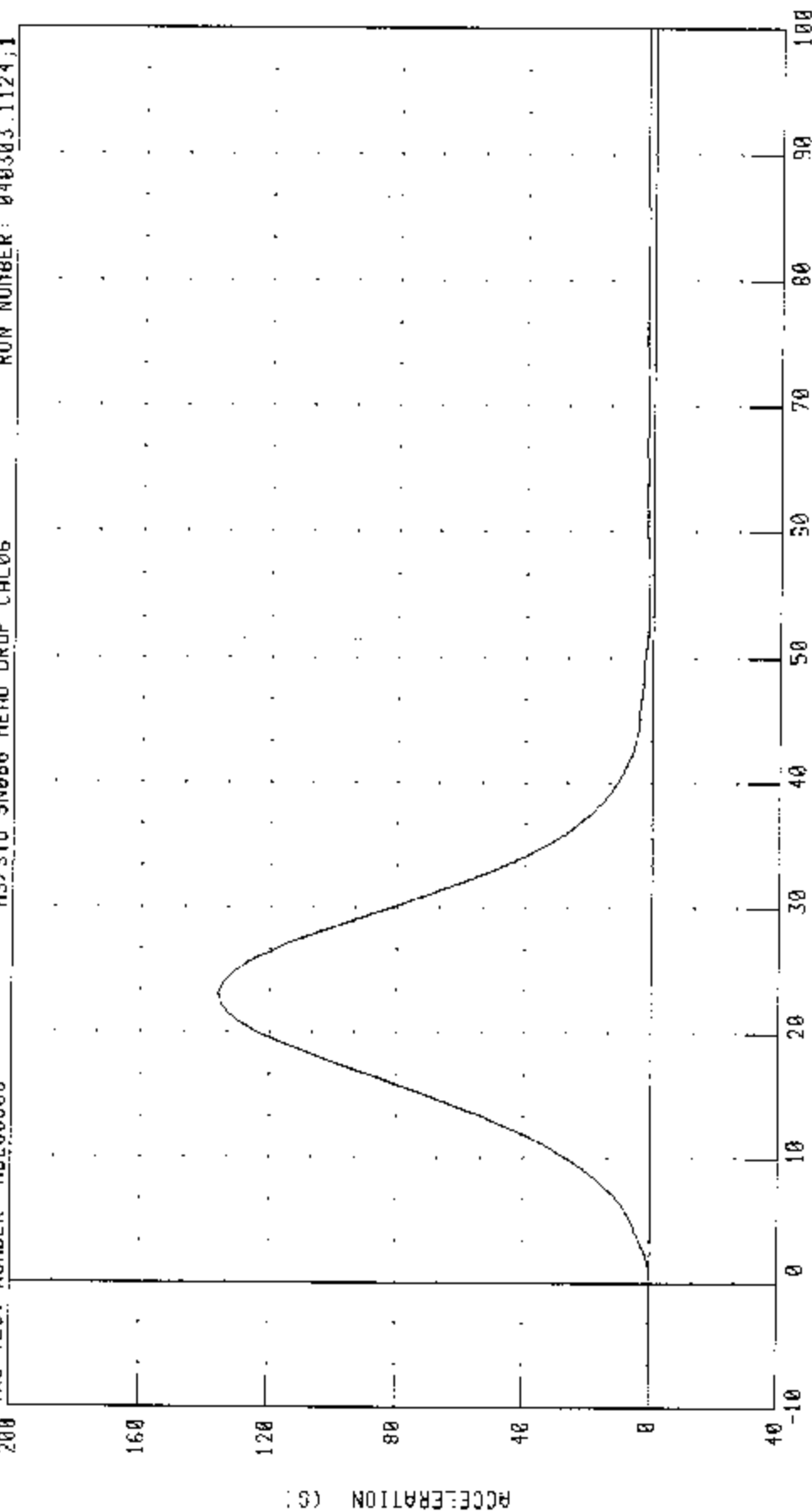
PEAK DATA: 111.63 G @ 2.32 MS, -0.03 G @ -0.06 MS

CHANNEL: HE02G FILTER: CH. CLOSS 10000

BJ0510 DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD RESULTANT ACCELERATION

TRC TEST NUMBER: HDL06606 H3/S10 SN056 HEAD DROP CAL06 RUN NUMBER: 040303.1124.1



CHANNEL: HEADG FILTER CH. CLASS 1000 TIME (MS X 10⁻¹) PEAK DATA: 135 92 0 0 2 32 MS; 0.04 0 0 -0 88 MS

TRANSPORTATION RESEARCH CENTER INC.

LATERAL NECK TEST

HYBRIDIII SID DUMMY

03-APR-03

LEFT SIDE CONFIGURATION

TRC INC.

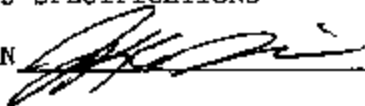
TEST NO. NFLO6606A

H3/SID SNO66 NECK LEFT CAL06

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	20.6 - 22.2 deg. C	21.67 deg. C
RELATIVE HUMIDITY	10 - 70 %	48.00 %
IMPACT VELOCITY	6.89 - 7.13 M/S	6.99 M/S
INTEGRATED VELOCITY	10 MS 1.96 - 2.55 M/S	2.36 M/S
	20 MS 4.12 - 5.10 M/S	4.80 M/S
	30 MS 5.73 - 7.01 M/S	6.78 M/S
	40 - 70 MS 6.27 - 7.64 M/S	7.07 - 7.16 M/S
MAXIMUM MIDSAGGITAL PLANE ROTATION	66 - 82 deg.	73.54 deg.
ROTATION ANGLE DECAY TIME FROM PEAK TO ZERO	58 - 67 MS	62.64 MS
MAXIMUM MOMENT ABOUT OCCIPITAL CONDYLE	73 - 88 NM	76.04 NM
POSITIVE MOMENT DECAY TIME FROM PEAK TO ZERO	49 - 64 MS	58.80 MS
TIME OF MAXIMUM ROTATION AFTER MAXIMUM MOMENT	2 - 16 MS	10.96 MS

TEST MEETS SPECIFICATIONS

TECHNICIAN



RUN NUMBER: 040303.1244;1

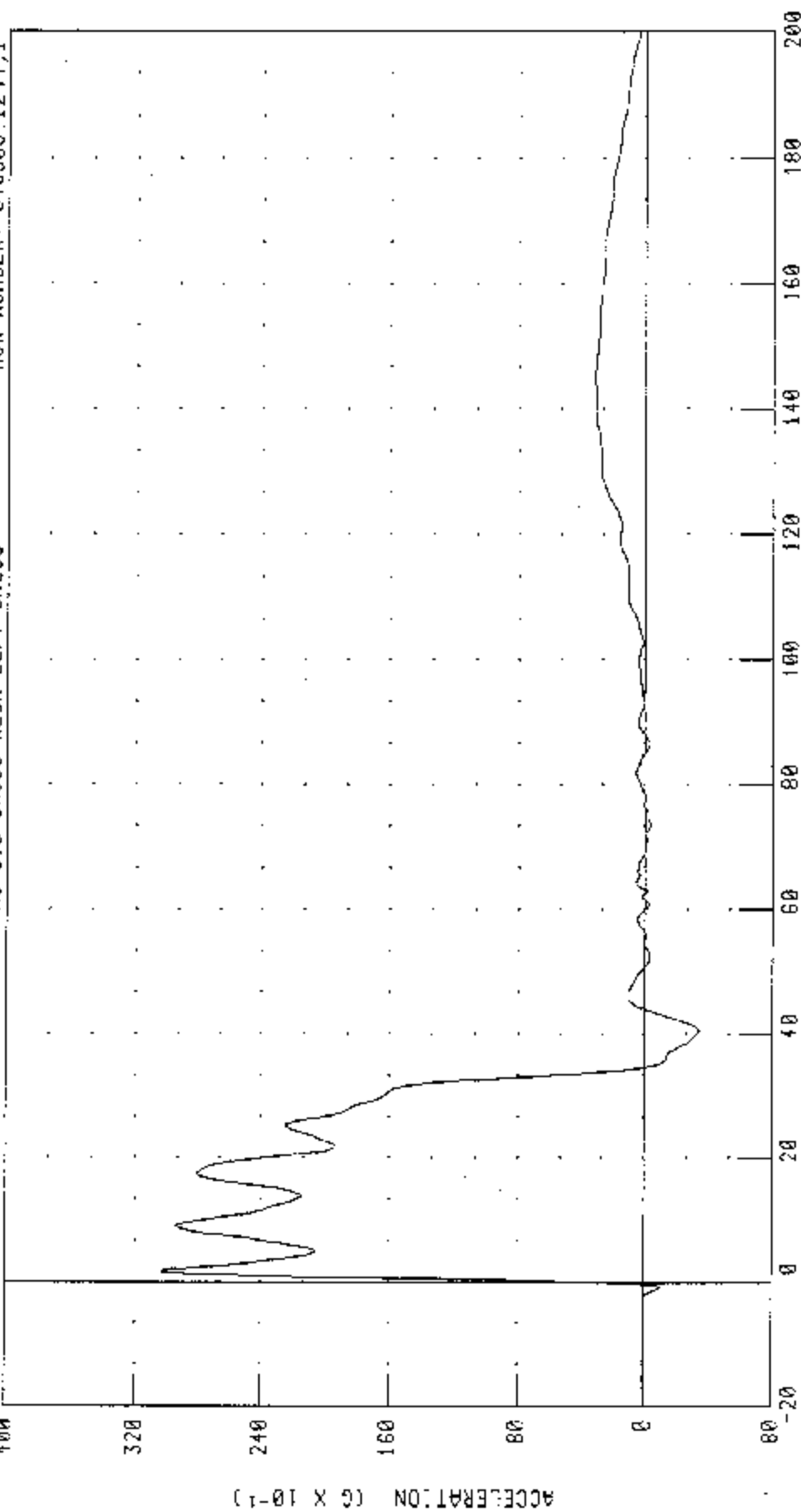
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

PENDULUM DECELERATION

H3/S10 SN068 NECK LEFT CAL06

TRC TEST NUMBER NFI06506A

RUN NUMBER: 040303.1244.1



TIME (MS)

CHANNEL: PENXC FILTER CIP CLASS 100

PEAK DATA 30 30 0 0 1 /6 MS; 3 44 0 0 40 64 MS

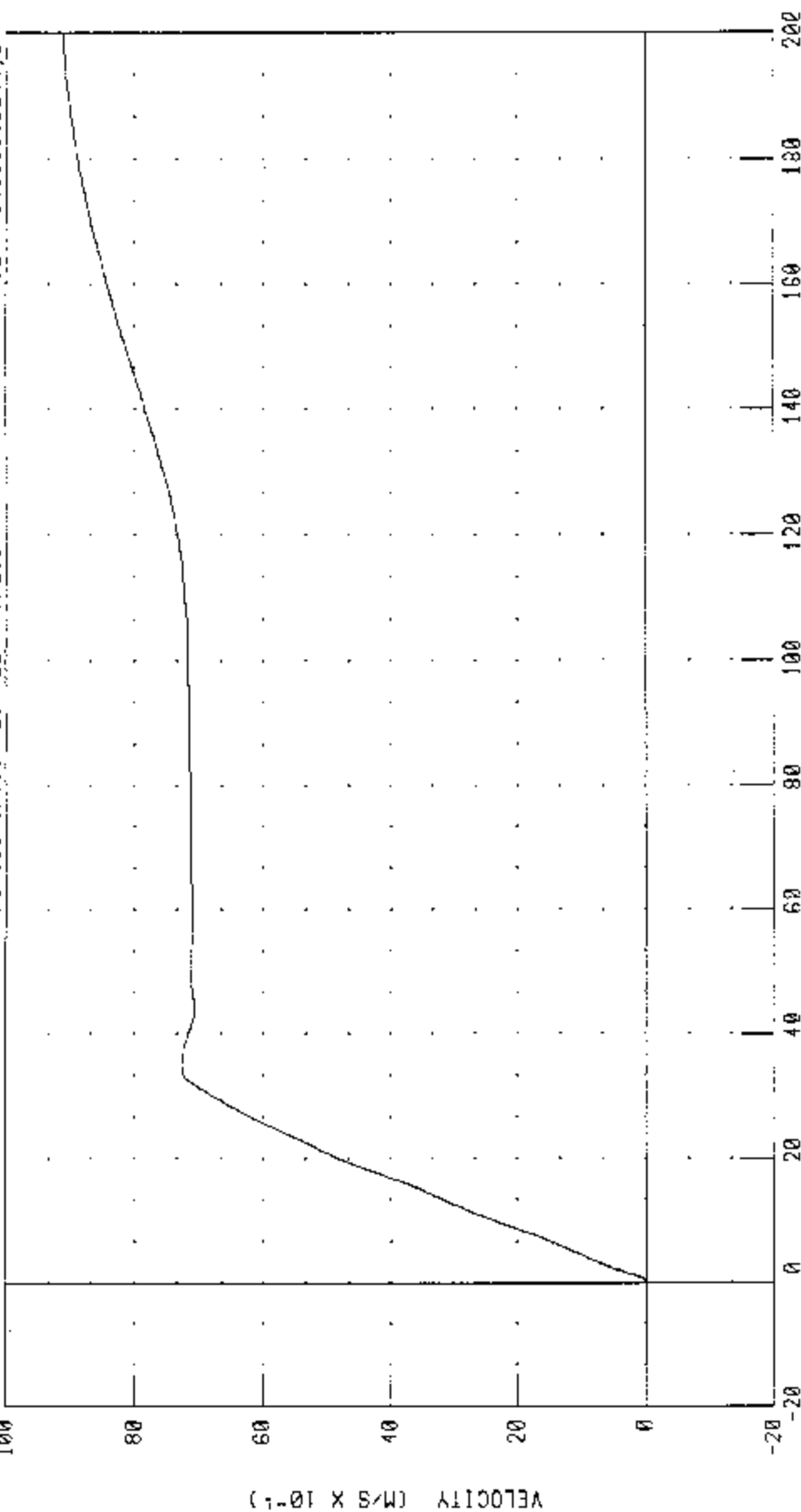
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

INTEGRATED PENDULUM VELOCITY

RUN NUMBER: 040303.1244.1

IRC TEST NUMBER: NFL06606A

H3/S10 SN066 NECK LEFT CAL06



TIME (MS)

PEAK DATA: 9 10 M/S @ 200 00 MS: -0 01 M/S @ -0 32 MS

CHANNEL: PENXY1 FILTER: CH. CLASS 180

VELOCITY (M/S X 10⁻¹)

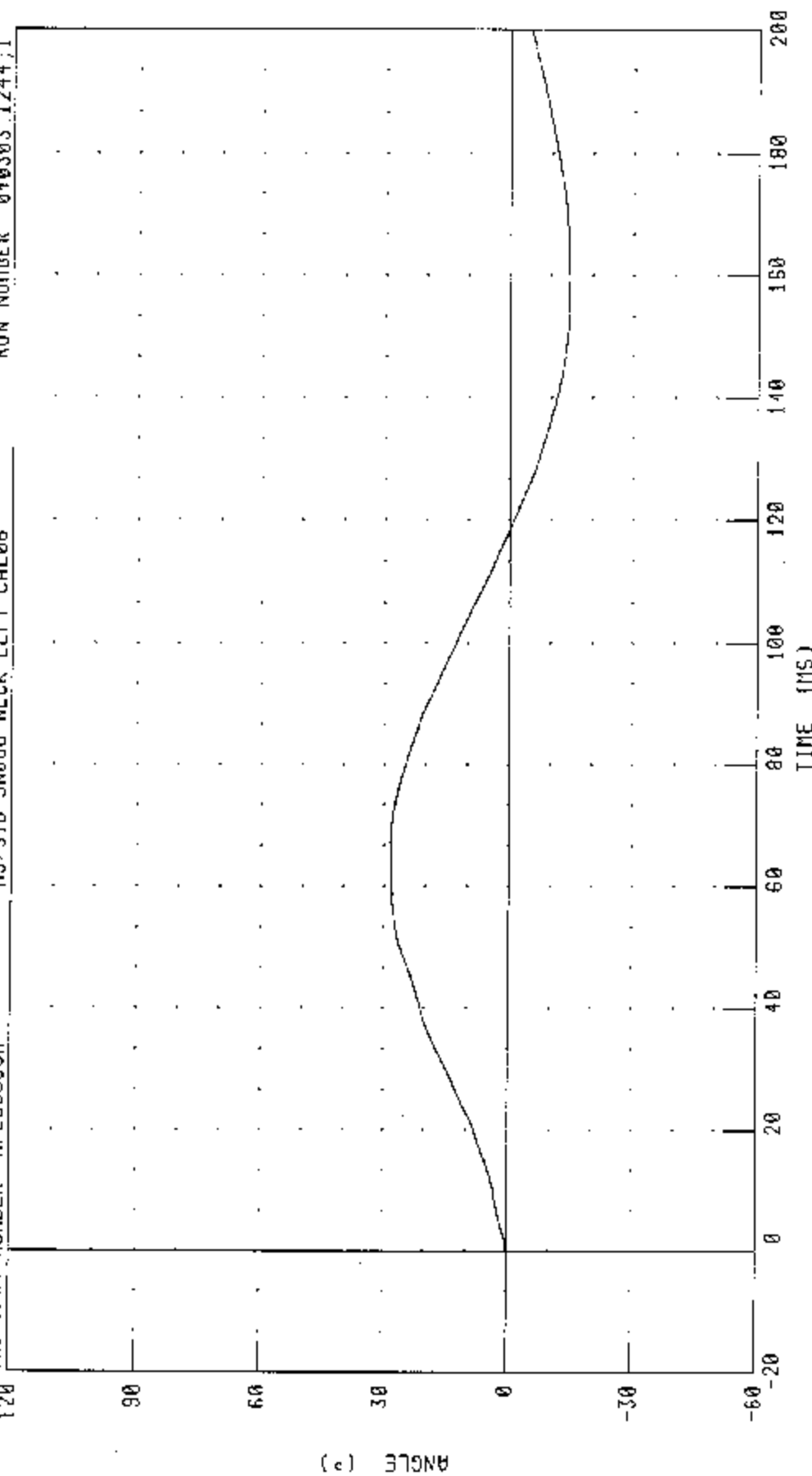
H3/S10 DUMMY CALIBRATION LEFT LATERAL NECK TEST

ROTATION ABOUT BASE OF NECK

TRC TEST NUMBER: NFL06606A

H3/S10 SN066 NECK LEFT CAL06

RUN NUMBER 010303.1244.1



TIME (MS)

CHANNEL: BETA FILTER: CH. CLASS 60

PEAK DQTP: 28.48 ° @ 67.28 MS; -14.50 ° @ 158.48 MS

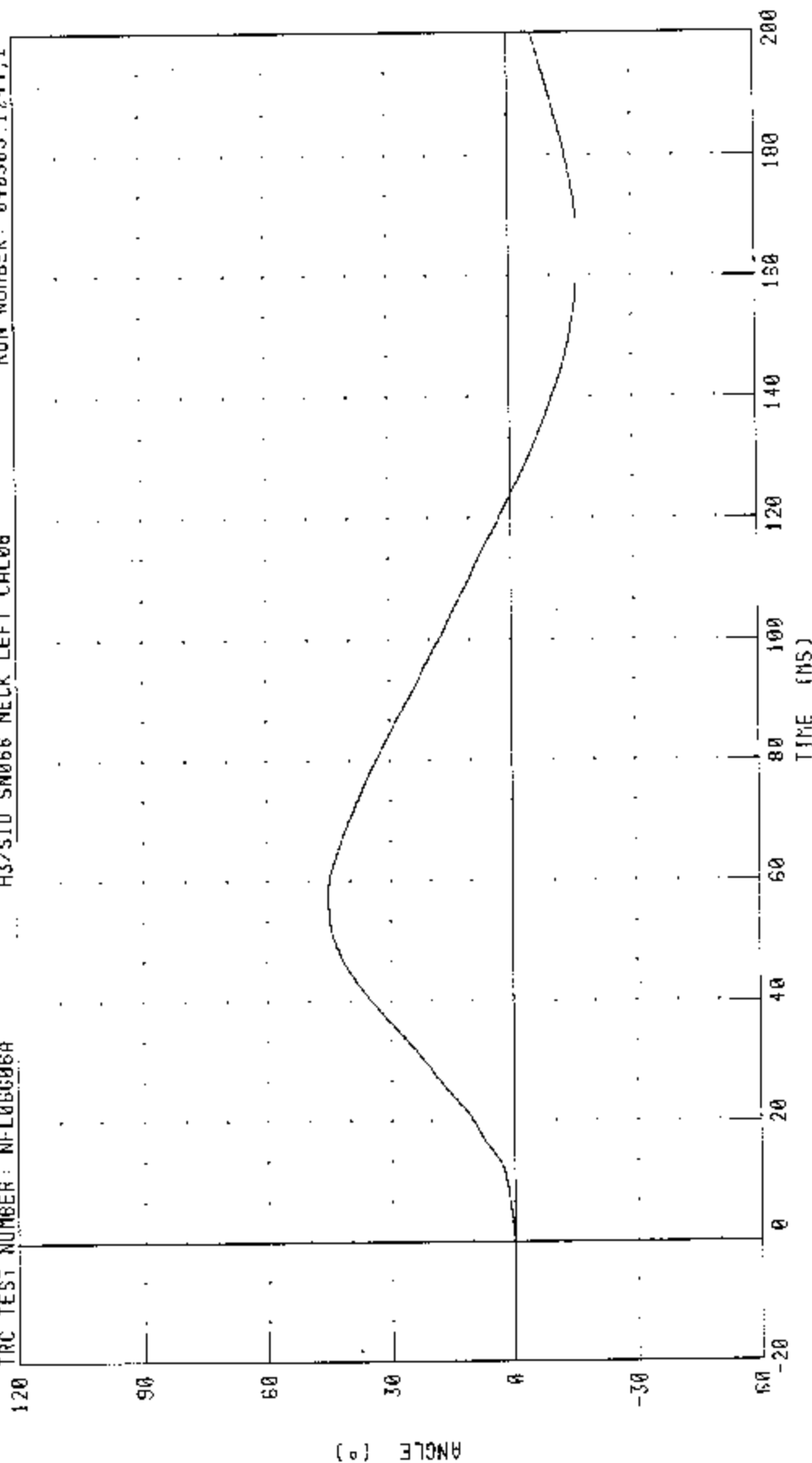
ANGLE (°)

H3/SID DUNNY CALIBRATION LEFT LATERAL NECK TEST RADIATION ABOUT OCCIPITAL CONDYLE

TRC TEST NUMBER: NFL06G06A

H3/SID SN066 NECK LEFT CAL06

RUN NUMBER: 040303.1244.1



PEAK DATA: 45.42 ° @ 57.52 MS, -16.69 ° @ 165.36 MS

CHANNEL: THETA FILTER: CIL CLASS 60

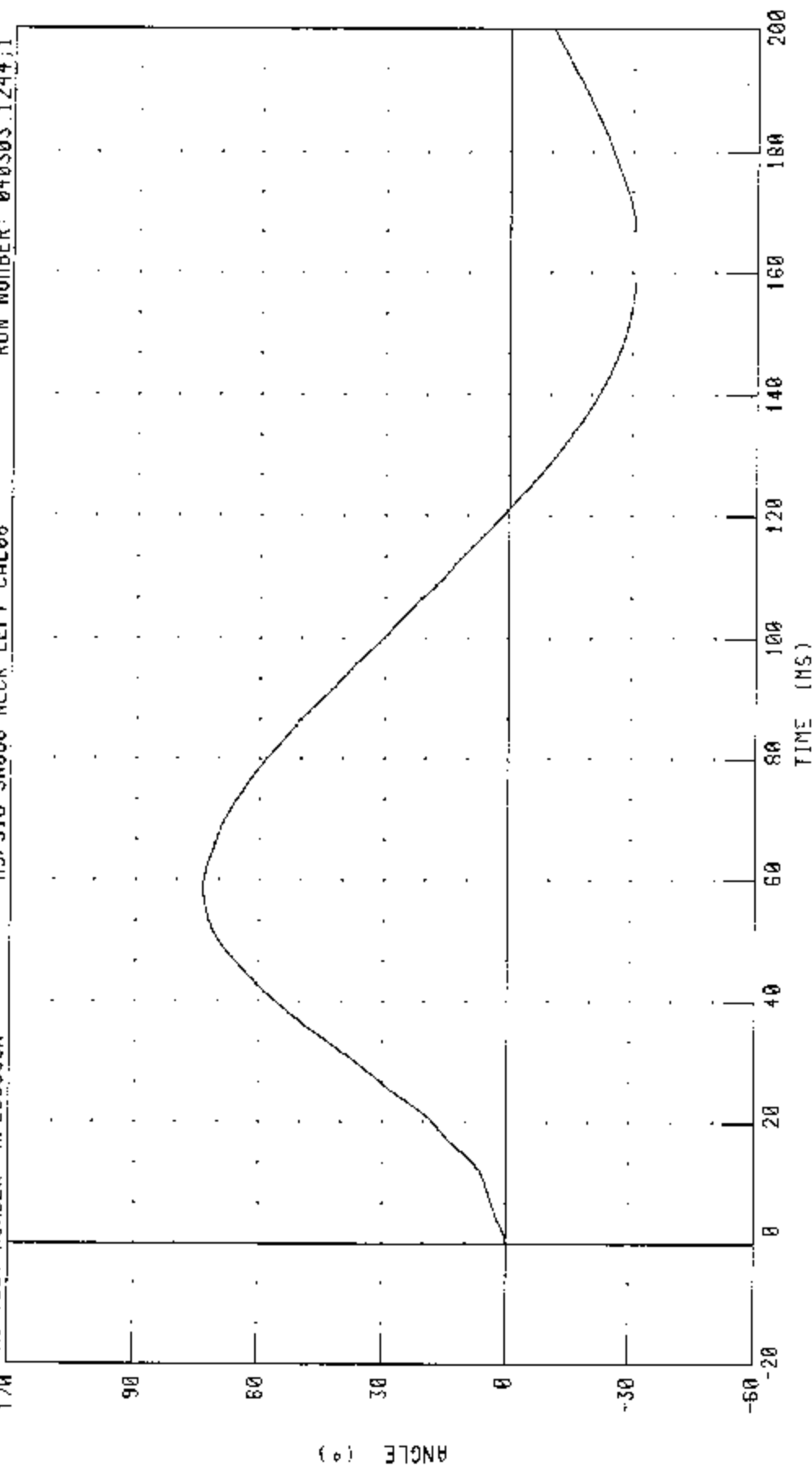
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

TOTAL ROTATION

TRC TEST NUMBER: NPL05505A

H3/SID SN066 NECK LEFT CAL06

RUN NUMBER: 040303.1244.1



PEAK DATA: 73.54 ° @ 58.64 MS, -30.82 ° @ 159.84 MS

CHANNEL: TOTAL FILTER: CH. CLASS 60

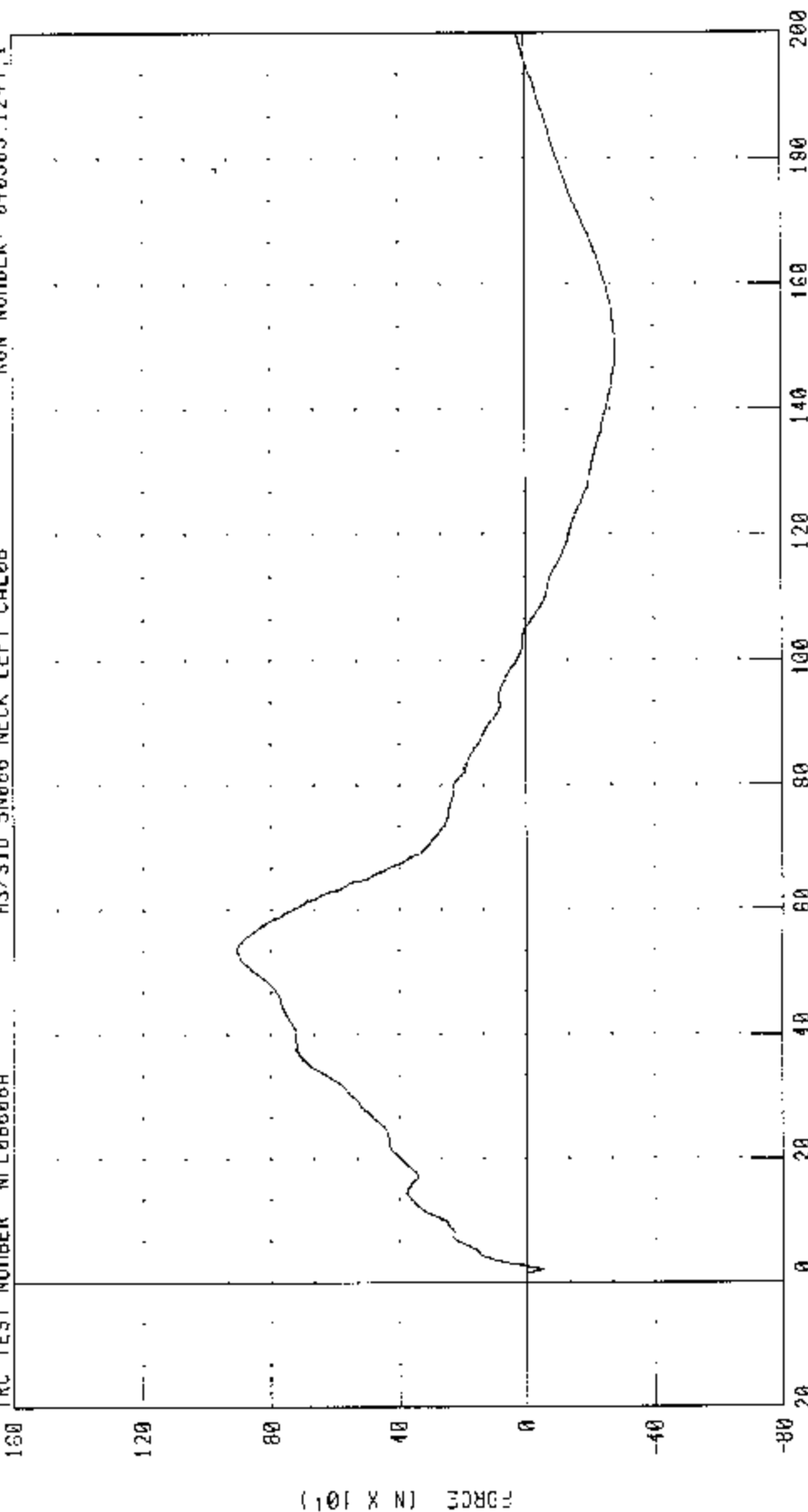
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

NECK FORCE Y AXIS

RUN NUMBER: 840303.1244.1

H3/SID SN066 NECK LEFT CAL06

IRC TEST NUMBER NFL06606A



FORCE (N X 10¹)

TIME (MS)

PEAK DATA 902.73 N @ 53.44 MS, -279.97 N @ 149.52 MS

CHANNEL: NFKYF FILTER: CH. CLASS 1000

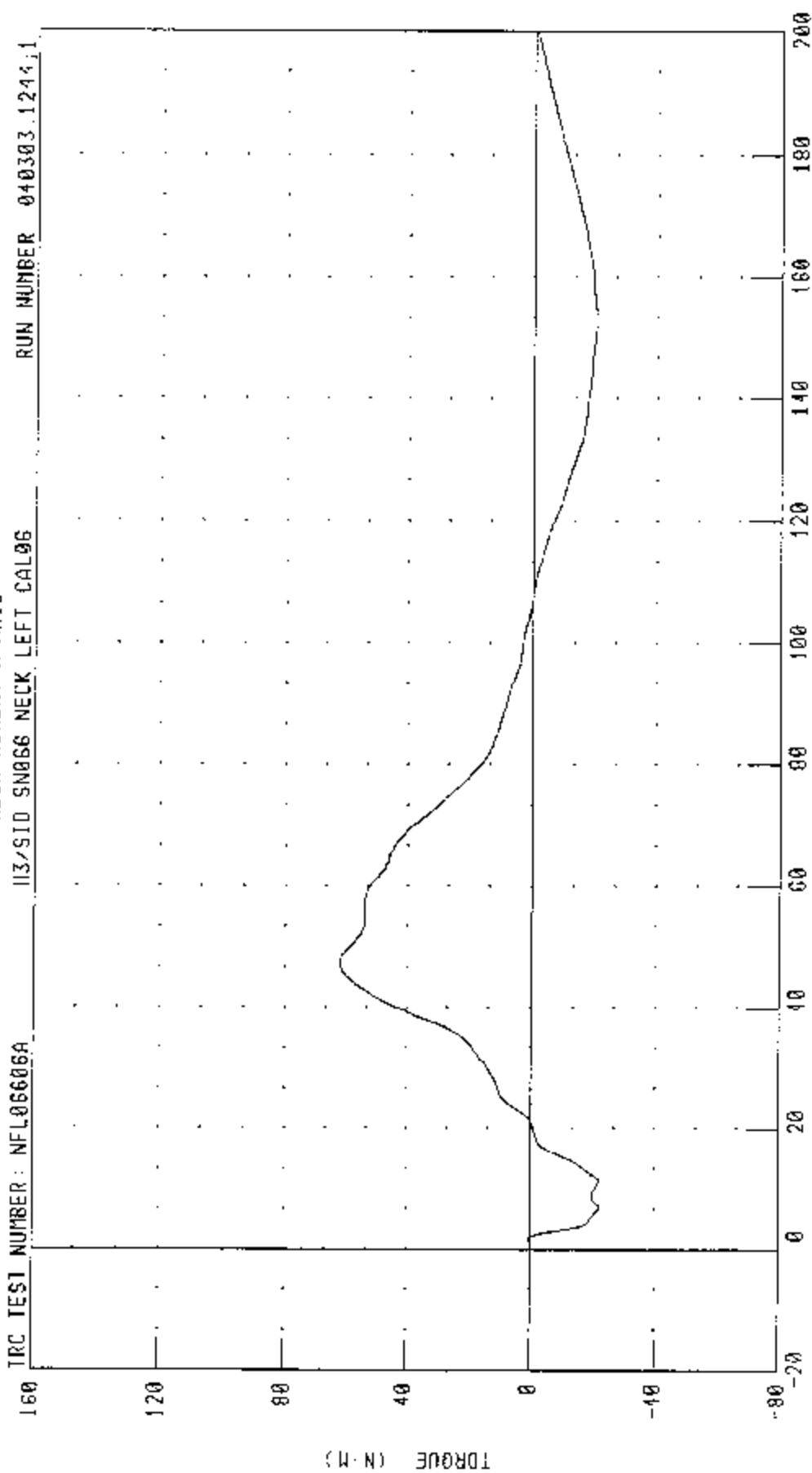
H3/SID DUNNY CALIBRATION -- LEFT LATERAL NECK TEST

NECK MOMENT X AXIS

TRC TEST NUMBER: NFL06606A

113/SID SN066 NECK LEFT CAL06

RUN NUMBER 040303.1244.1



TIME (MS)

PEAK DATA 51.96 N·m @ 47.36 MS; -22.12 N·m @ 6.88 MS

CHANNEL: NECKMM FILTER: CH CLASS: 600

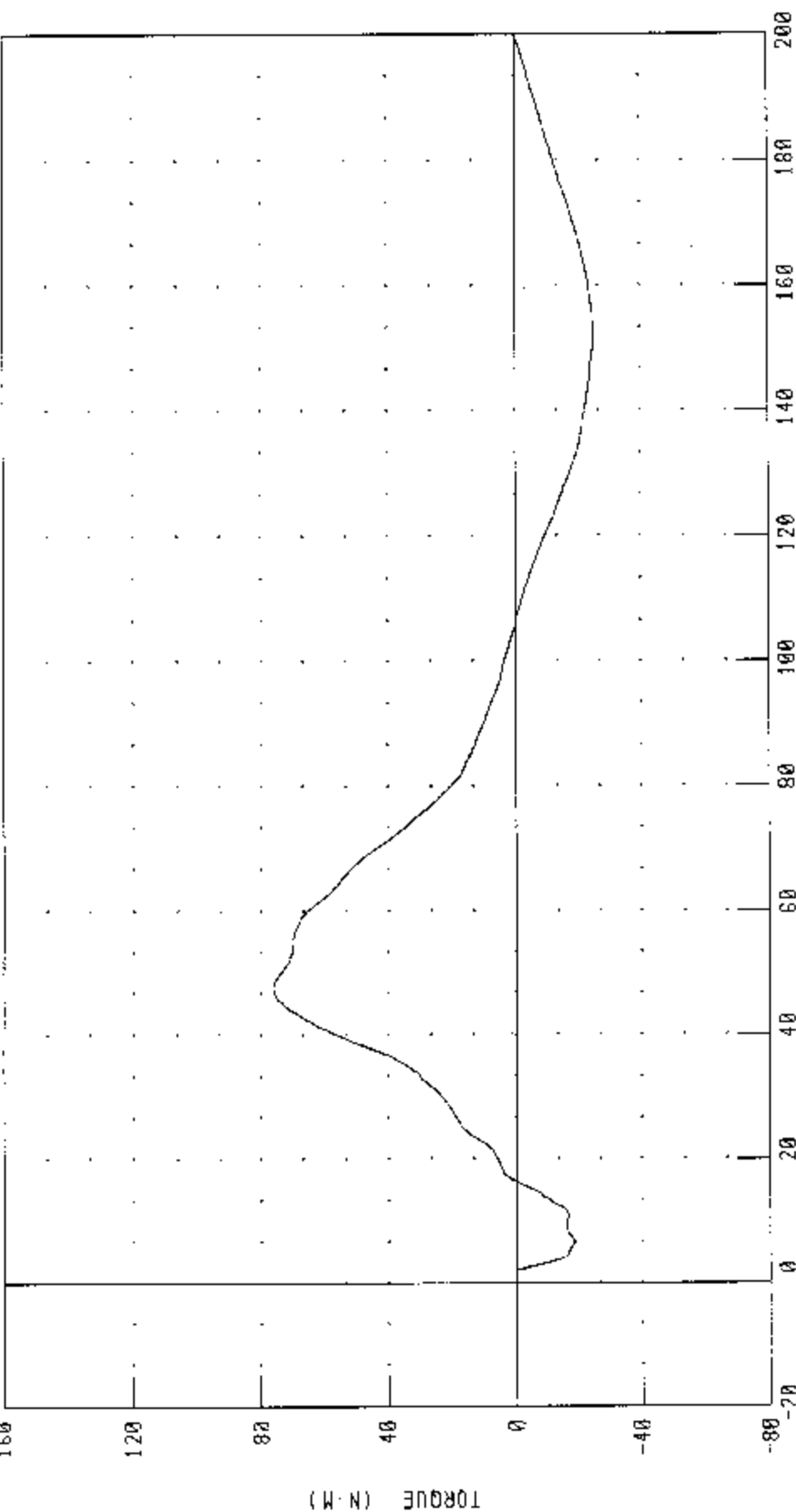
U3/SID DUMMY CALIBRATION · LEFT LATERAL NECK TEST

TOTAL MOMENT ABOUT OCCIPITAL CONDYLE

H3/SID SN066 NECK LEFT CAL06

RUN NUMBER: 040303.1244.1

TRC TEST NUMBER: NFL06S06A



TIME (MS)

PEAK DATA 76.04 N·M @ 47.68 MS; -25.02 N·M @ 152.88 MS

CHANNEL: NEK01 FILTER: CIL CLASS 600

TORQUE (N·M)

TRANSPORTATION RESEARCH CENTER INC.

LATERAL THORAX IMPACT TEST

SIDE IMPACT DUMMY

02-APR-03

LEFT SIDE CONFIGURATION

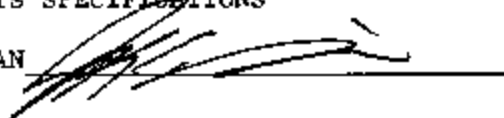
TRC INC.

TEST NO: STL06606

572F SID SNO66 L.THORAX CAL06

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	44.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.26 M/S
PEAK ACCELERATION: UPPER RIB BAR	37 - 46 G	40.6 G
PEAK ACCELERATION: LOWER RIB BAR	37 - 46 G	42.9 G
PEAK ACCELERATION: LOWER THORACIC SPINE	15 - 22 G	20.2 G

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 040203.1515;1

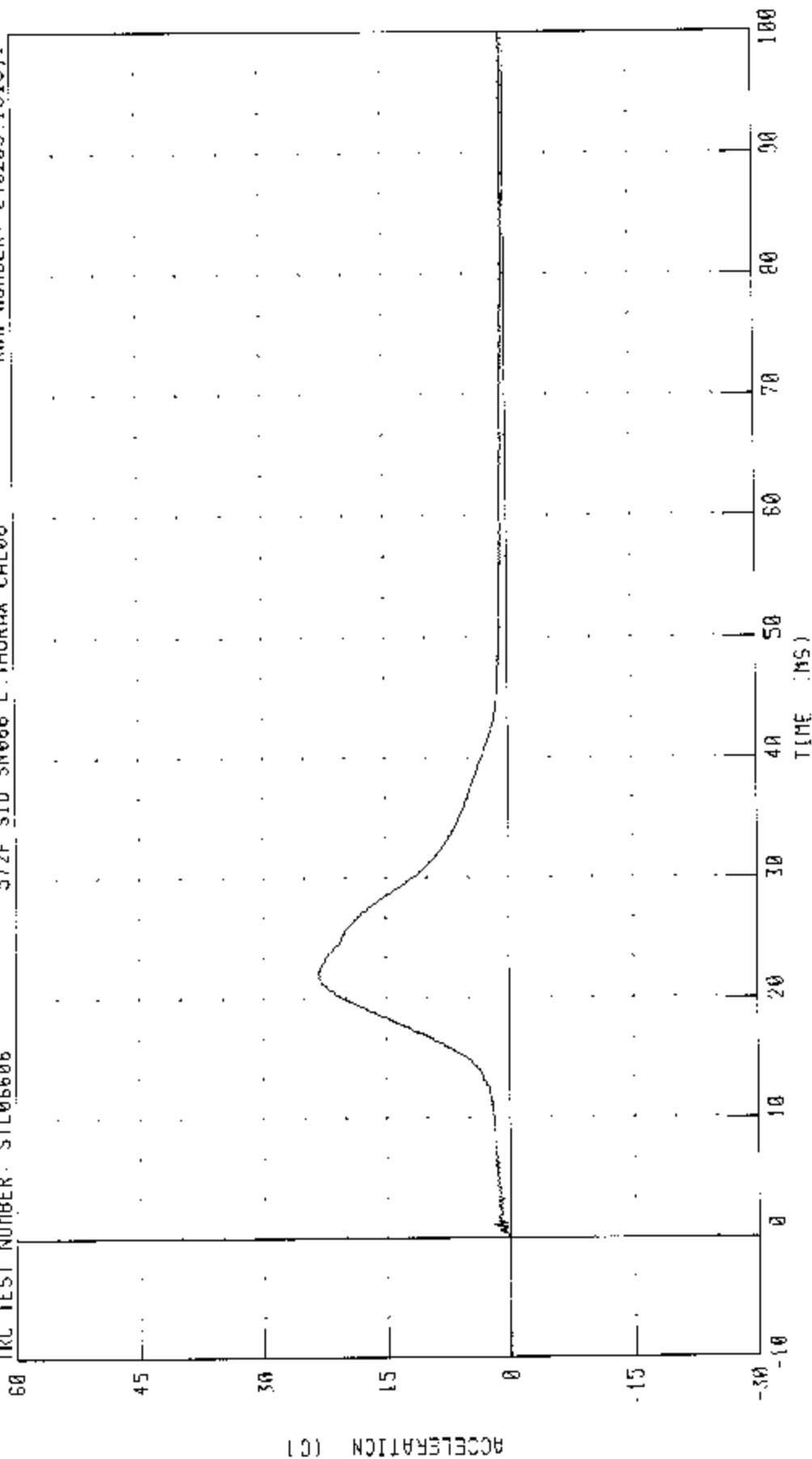
PART 572-F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION

TRC TEST NUMBER: ST106606

572F SID SN066 L THORAX CAL06

RUN NUMBER: 240203.1515.1

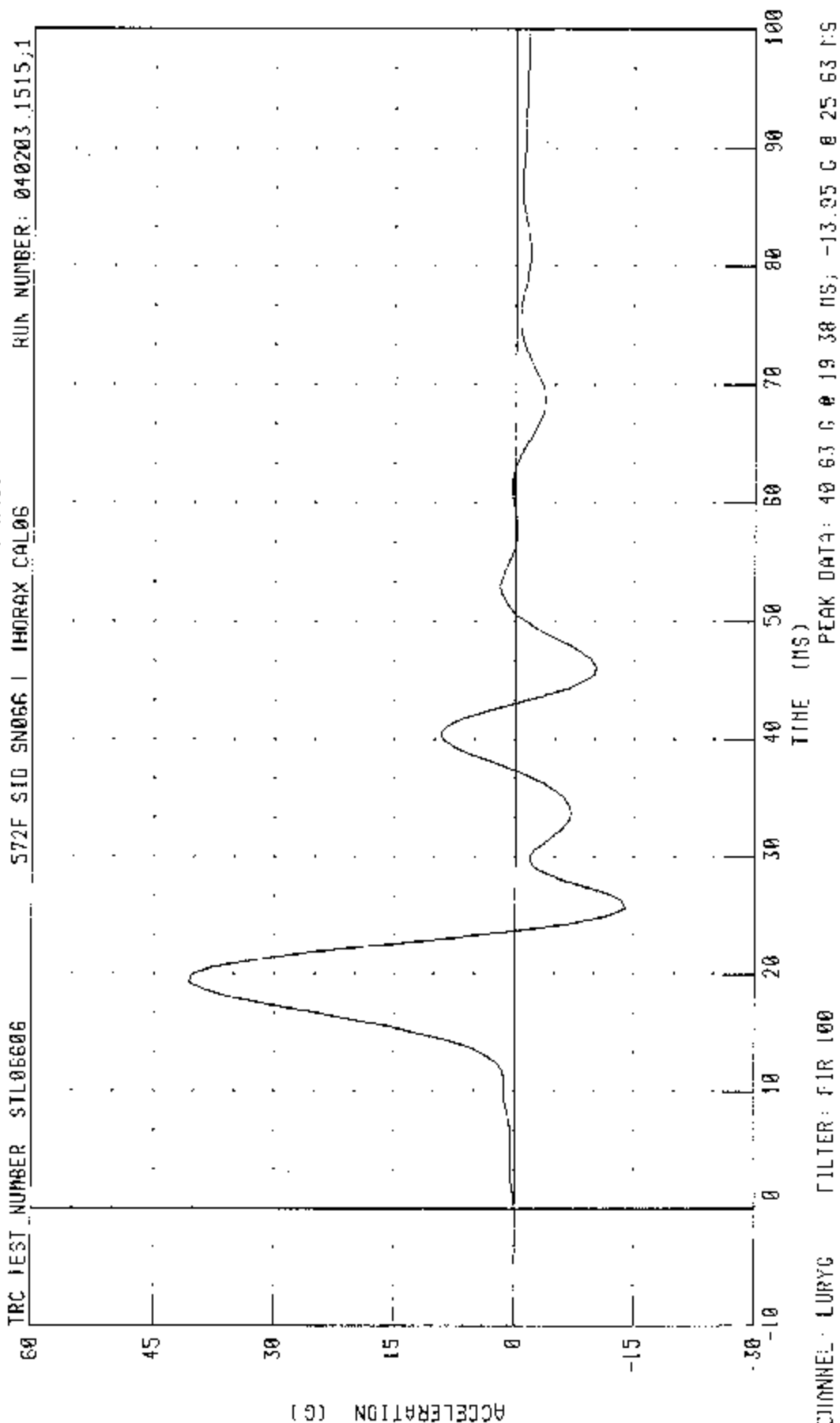


CHANNEL PENXC FILTER CH CLASS 1000

PEAK DATA: 23.28 G @ 22.00 MS, 0.00 G @ -7.60 MS

PART 572-F S I D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LEFT UPPER RIB ACCELERATION Y AXIS



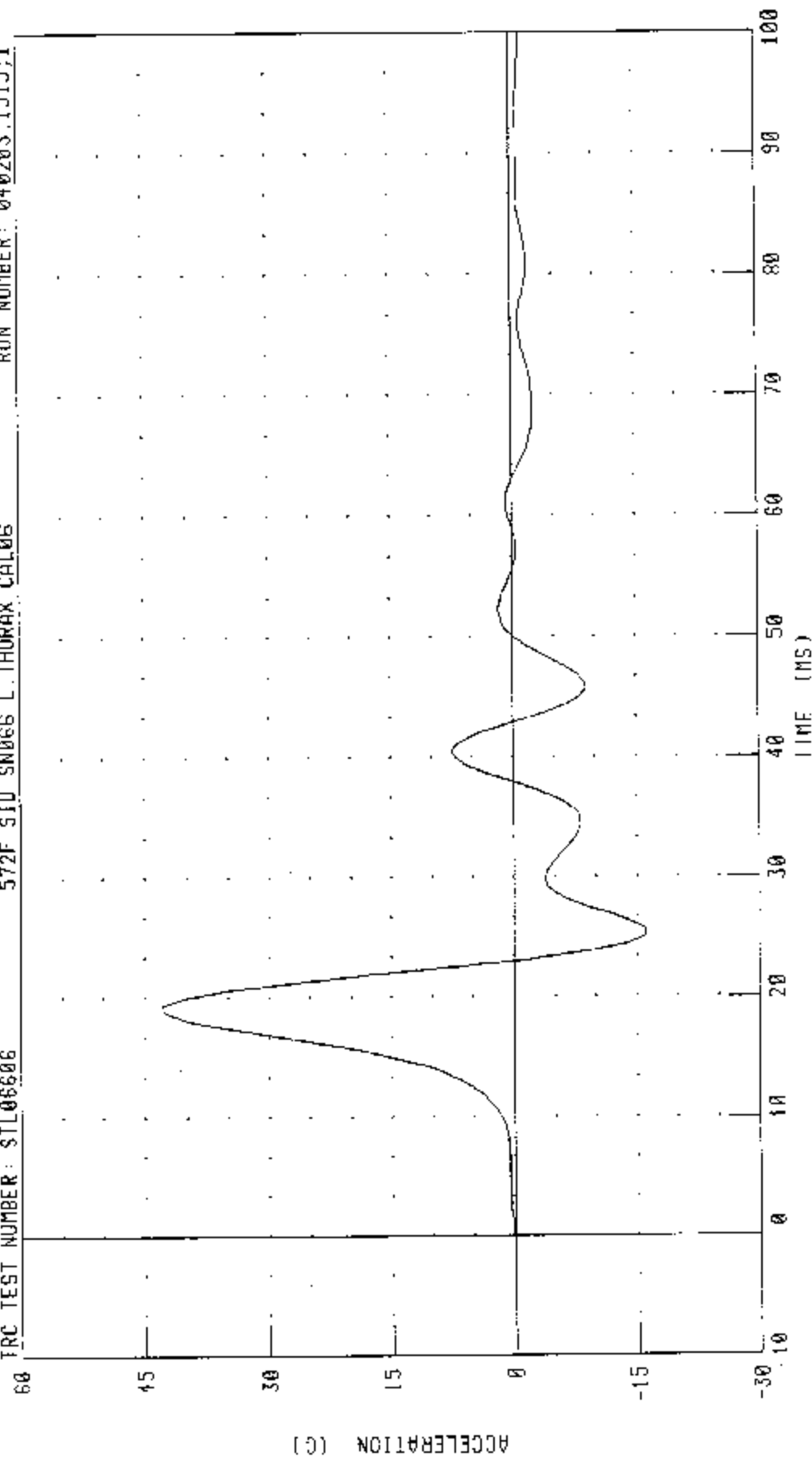
PARI 572 F S.I.D. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LEFT LOWER RIB ACCELERATION Y AXIS

RUN NUMBER: 040203.1515;1

PRC TEST NUMBER: STL06606

572F SID SN066 L THORAX CAL06



PEAK DATA: 42.92 G @ 19.38 MS; -16.10 G @ 25.63 MS

CHANNEL: LLRYC FILTER: FIR 100

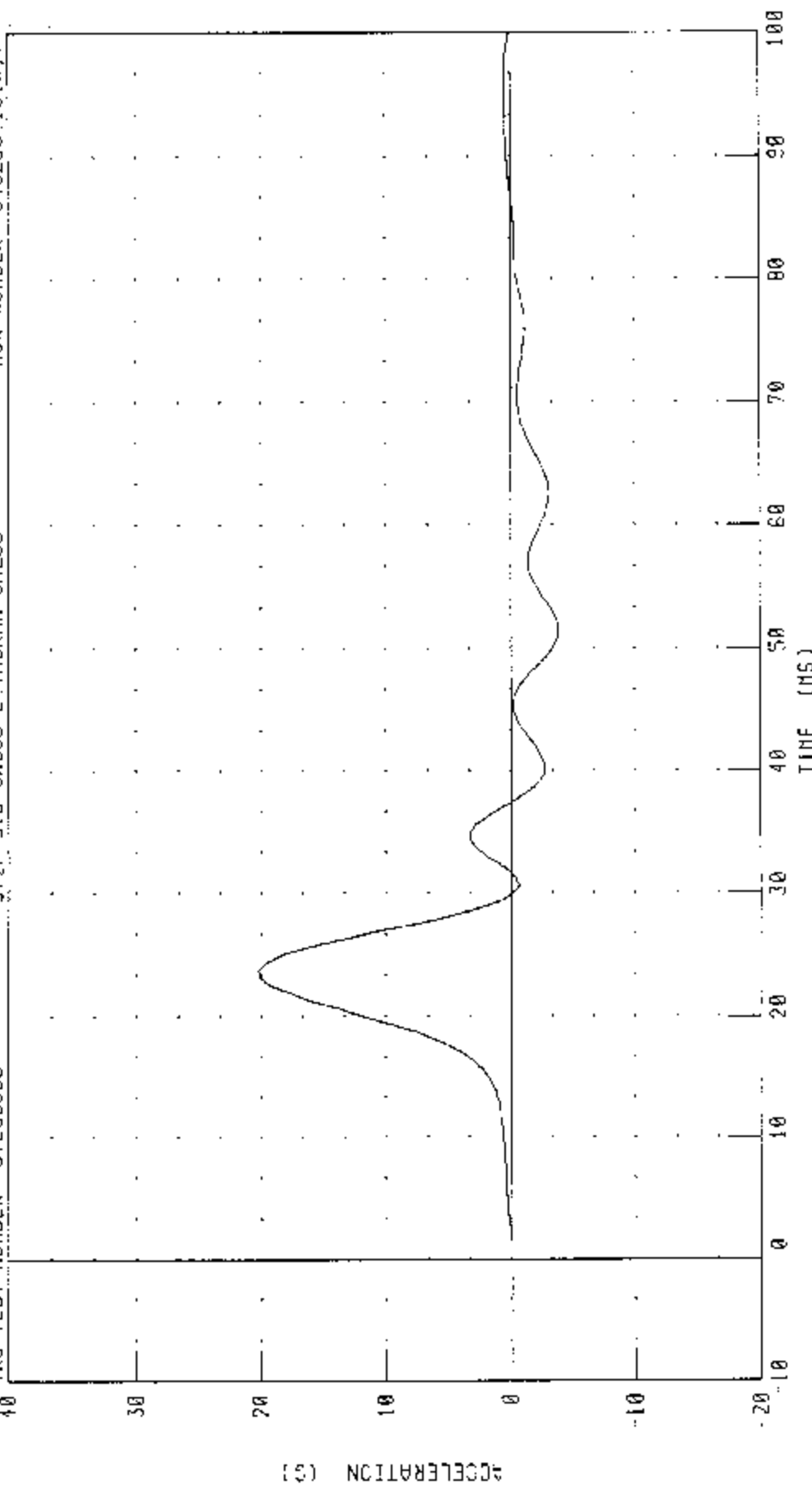
PART 572-F S.1 D THORAX CALIBRATION - (LEFT SIDE IMPACT)

LOWER SPINE ACCELERATION Y AXIS

TRC TEST NUMBER: S1L06606

572F STD SN066 L THORAX CAL06

RUN NUMBER: 040203.1515.1



CHANNEL: T12YG FILTER: FIR 100

PEAK DATA 20.23 G @ 23.75 MS, -3.85 G @ 51.25 MS

Transportation Research Center Inc.

572B Abdomen Compression Test

HIII SID Serial No. 066 Calibration No. 06 - 1

Test Date 04/03/2003

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.7 °C	Yes
Relative Humidity	10 - 70 %	48 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	6.9 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Comments:

Technician



Approved



04.03.2003 12:42:46 S

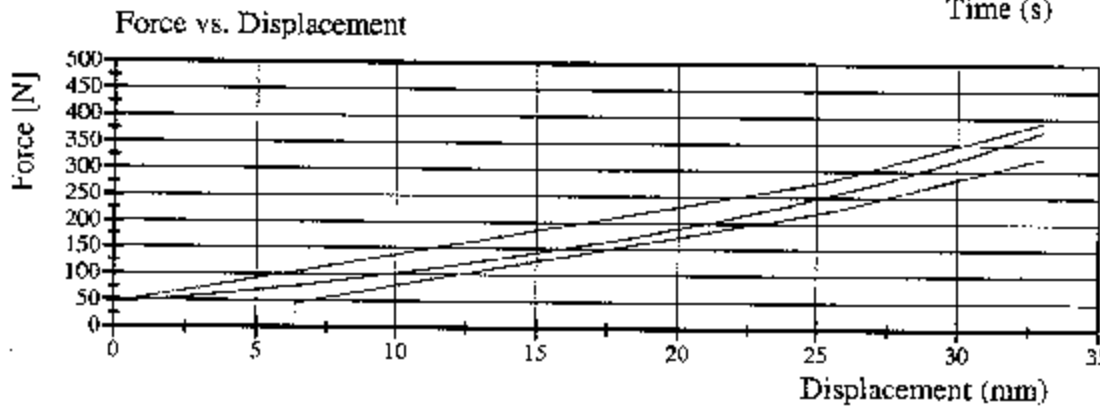
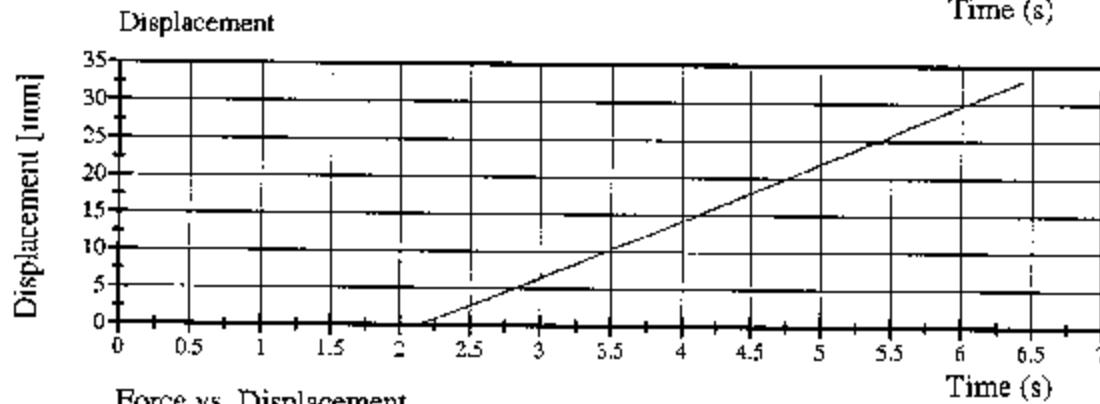
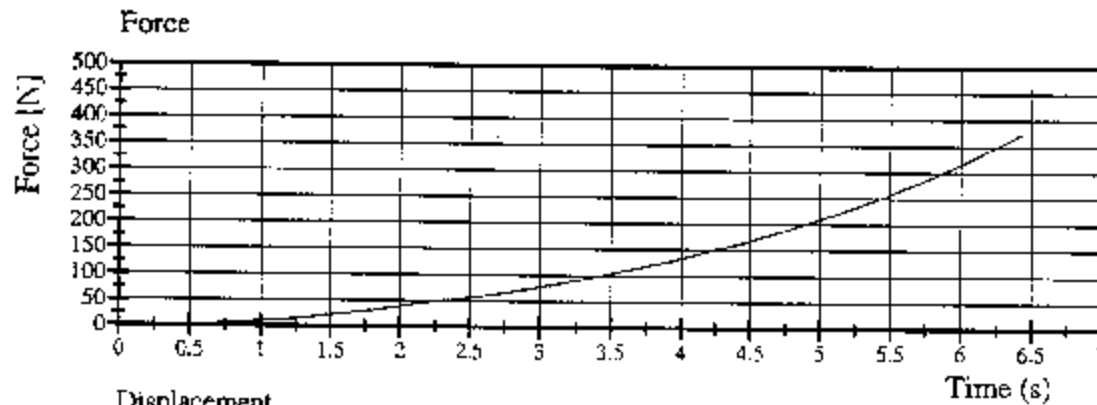


Transportation Research Center Inc.

572B Abdomen Compression Test

HIH SID Serial No. 066 Calibration No. 06 - 1

Test Date 04/03/2003



04.03.2003 12:42:47 5



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 03-Apr-03

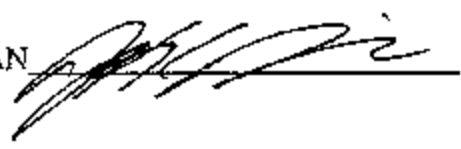
TRC, INC.

TEST NO: 066C06TF1

572B SN 066 TORSO FLEX CAL 06

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.7 °C
RELATIVE HUMIDITY	10 - 70 %	49 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	124.6 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	173.5 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	222.4 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	7 °

TEST MEETS SPECIFICATIONS

TECHNICIAN 

TRANSPORTATION RESEARCH CENTER INC.

LATERAL PELVIS IMPACT TEST

SIDE IMPACT DUMMY

02-APR-03

LEFT SIDE CONFIGURATION

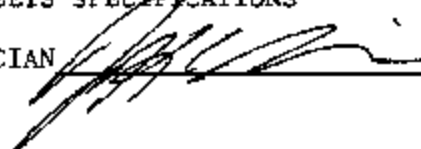
TRC INC.

TEST NO: SPL06606

572P SNO66 LEFT PELVIS CAL06

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	44.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.28 M/S
PEAK PELVIC ACCELERATION	40 - 60 G	53.2 G
TIME ABOVE 20 G LEVEL	3 - 7 MS	6.1 MS
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 040203.1508;1

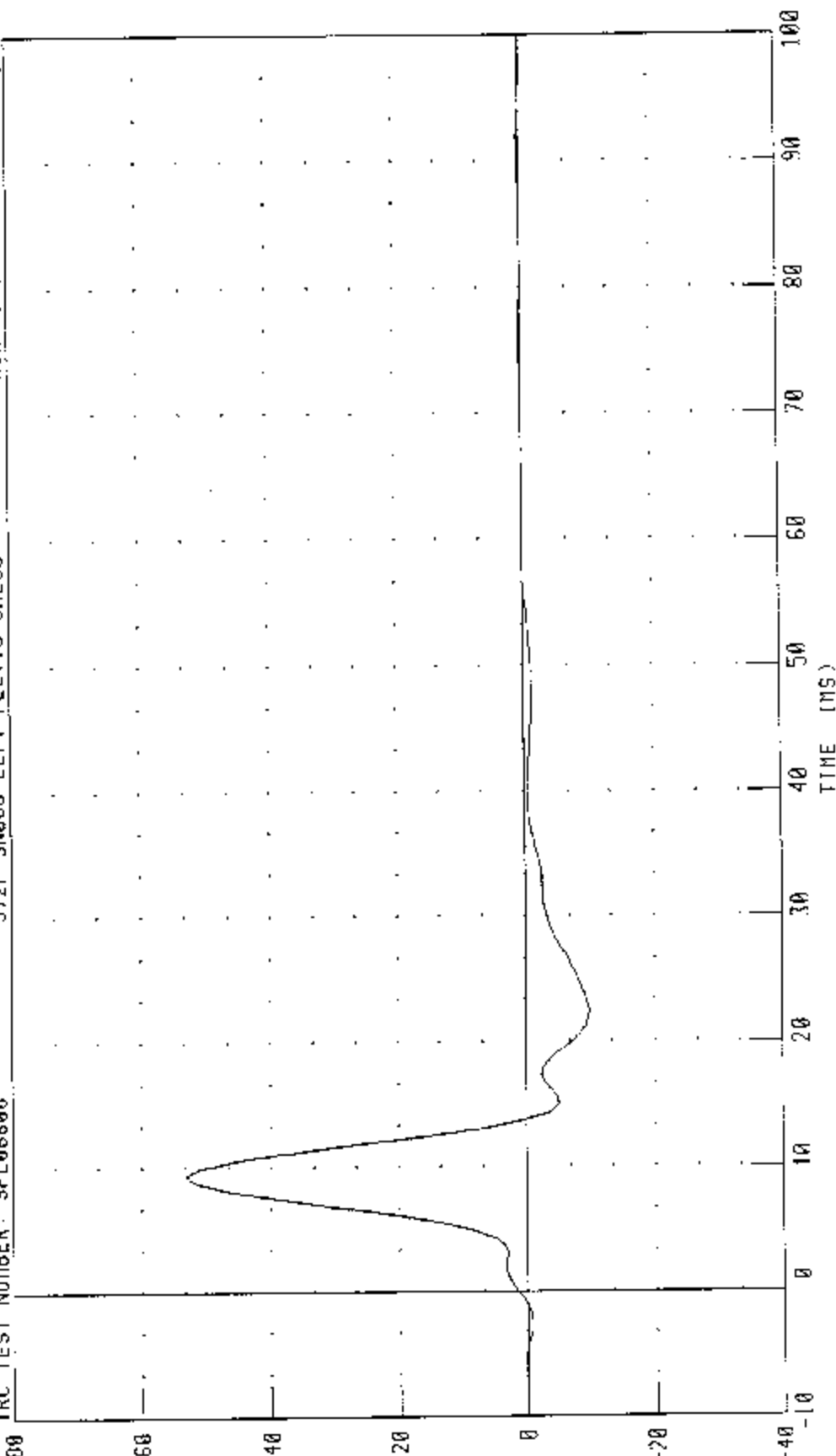
PART 572-F S.I.D. PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PELVIS ACCELERATION Y AXIS

572F SN066 LEFT PELVIS CAL06

TRC TEST NUMBER: SPL06606

RUN NUMBER: 040203 1509,1



PEAK DATA: 53.23 G @ 9.37 MS, 0.82 G @ 22.50 MS

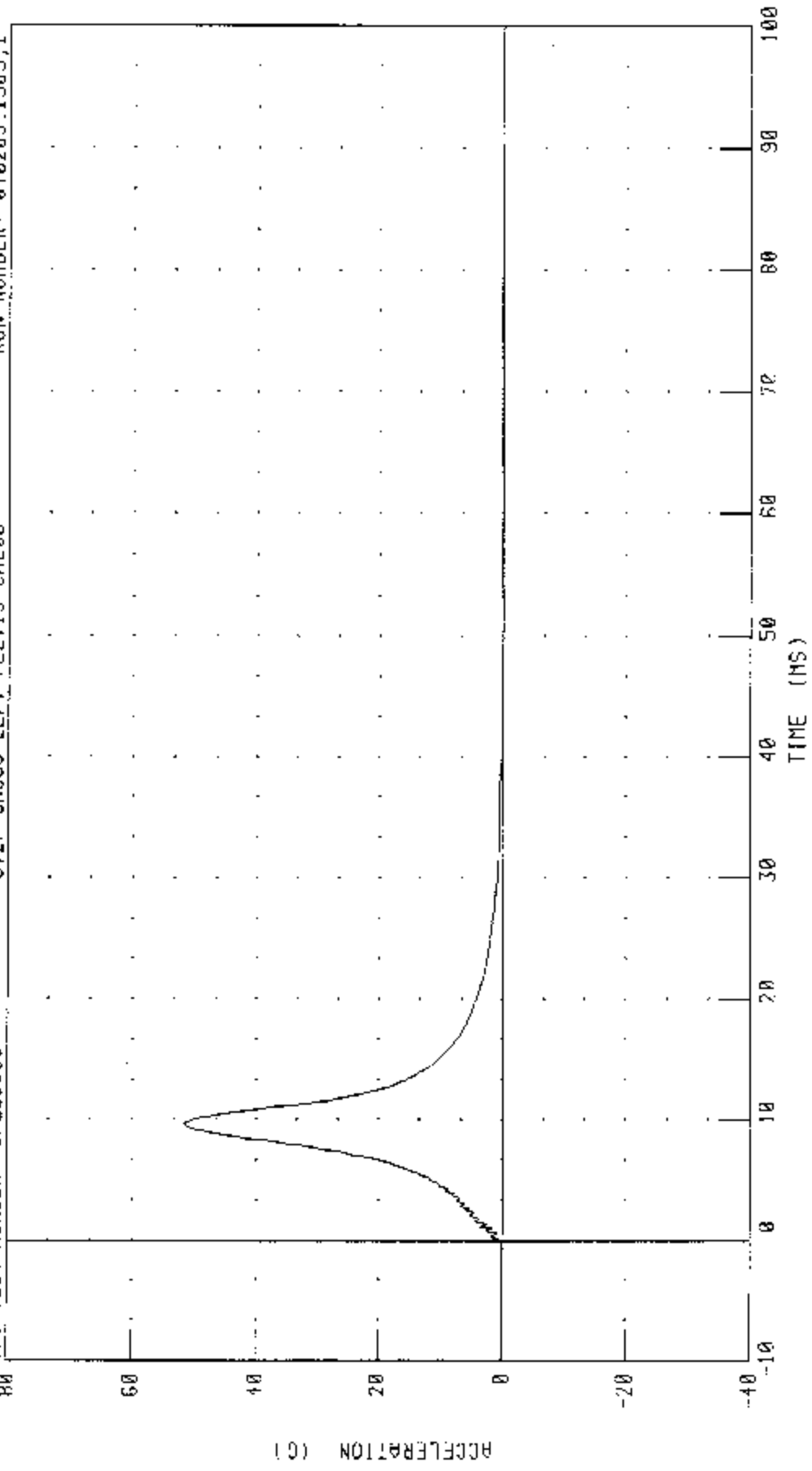
CHANNEL PEVYC FILTER FIR 100

ACCELERATION (G)

PART 572-F S I O PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION

TRC TEST NUMBER: SPL06606 572F SN066 LEFT PELVIS CAL06 RUN NUMBER: 040203.1509;1



PEAK DATA: 51 70 0 9.68 MS; -0.12 0 0 70 16 MS

CHANNEL PENXG FILTER: CH CLASS 1000

Calibration Test Results

Post-Test

SID-HIII: 065

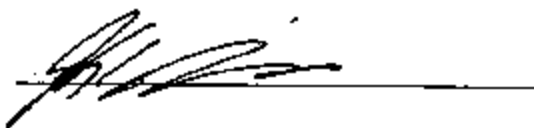
Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.

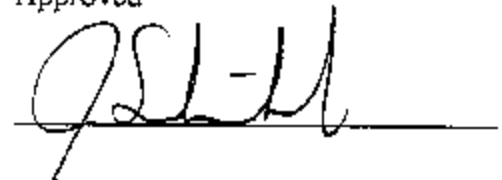
Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No. 065 Calibration No. 06

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	897 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	511 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	236 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	514 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	497 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	373 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	170 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	171 mm	Yes
Difference Between Top & Bottom Rib Width from CL		<= 2.5 mm	1.0 mm	Yes

Technician



Approved



TRE

TRANSPORTATION RESEARCH CENTER INC.

LATERAL HEAD DROP TEST

HYBRIDIII SID DUMMY

24-MAR-03

LEFT SIDE CONFIGURATION

TRC INC.

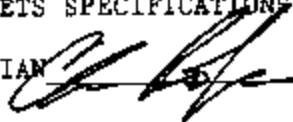
TEST NO. HDL06506

H3/SID SM065 HEAD DROP CAL06

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6 deg. C	21.67 deg. C
RELATIVE HUMIDITY	10 - 70 %	44.00 %
PEAK RESULTANT ACCELERATION	120 - 150 G	141.44 G
PEAK LONGITUDINAL ACCELERATION	15 G MAX	5.46 G
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN



RUN NUMBER: 032403.0753;1

BIOSID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION X AXIS

TRC TEST NUMBER: HNL06506

H3/SID SN065 HEAD DROP CAL06

RUN NUMBER: 032403.1249,1

120

80

40

ACCELERATION (G)

0

-40

-80

-120

100

TIME (MS X 10¹)

FILTER: CIL CLASS 1000

CHANNEL: HEADXG

PEAK DATA: 5 46 0 0 3.44 MS, -1 25 0 0 2.08 MS

1-320303

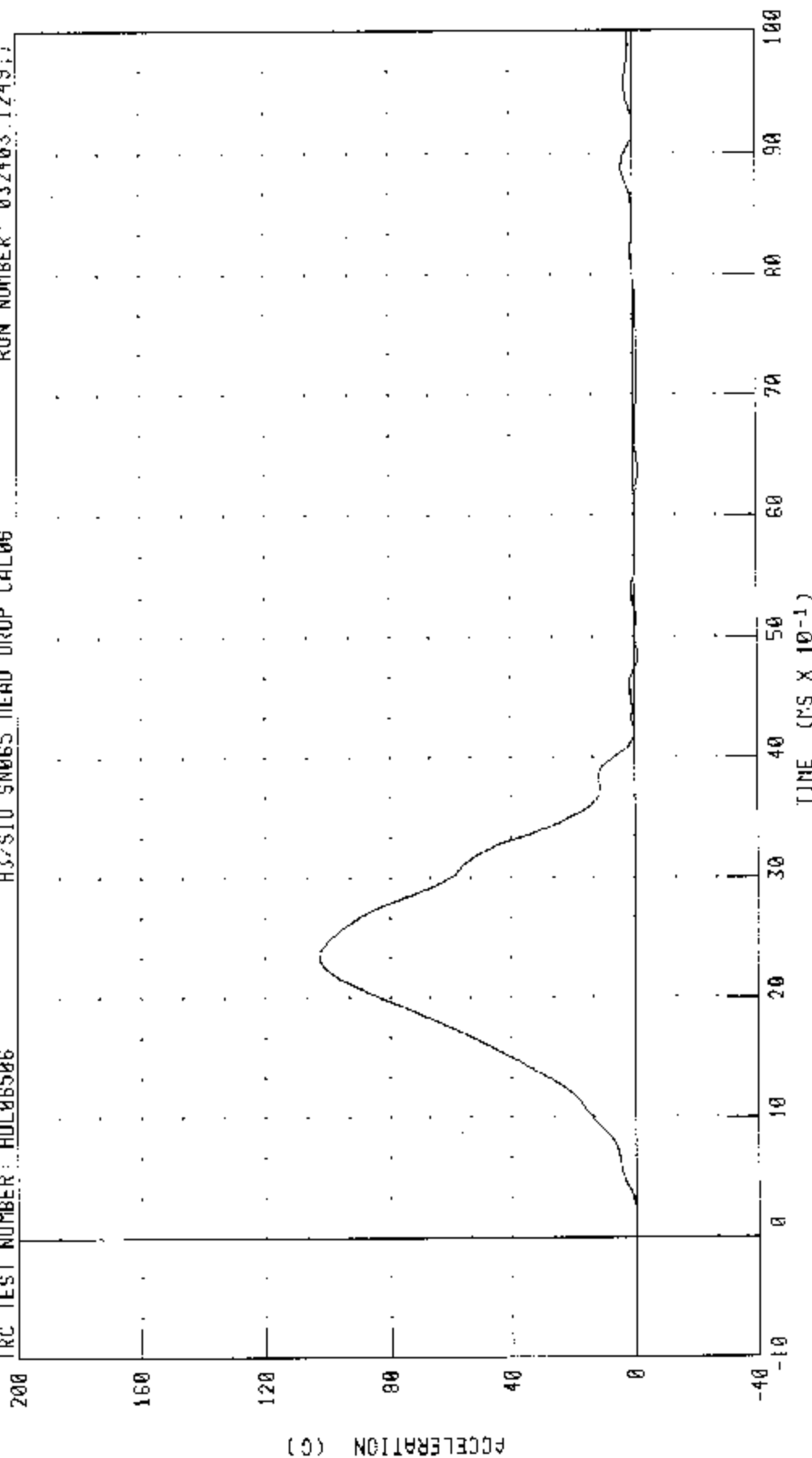
BIOSID DUNNY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Y AXIS

TRC TEST NUMBER: HDL06506

H3-SID SN065 HEAD DROP CAL06

RUN NUMBER: 032403.1249.1



PEAK DATA: 102.94 S @ 2.32 NS, 1.00 C @ 6.40 NS

CHANNEL: HEDYG FILTER: CH CLASS 1000

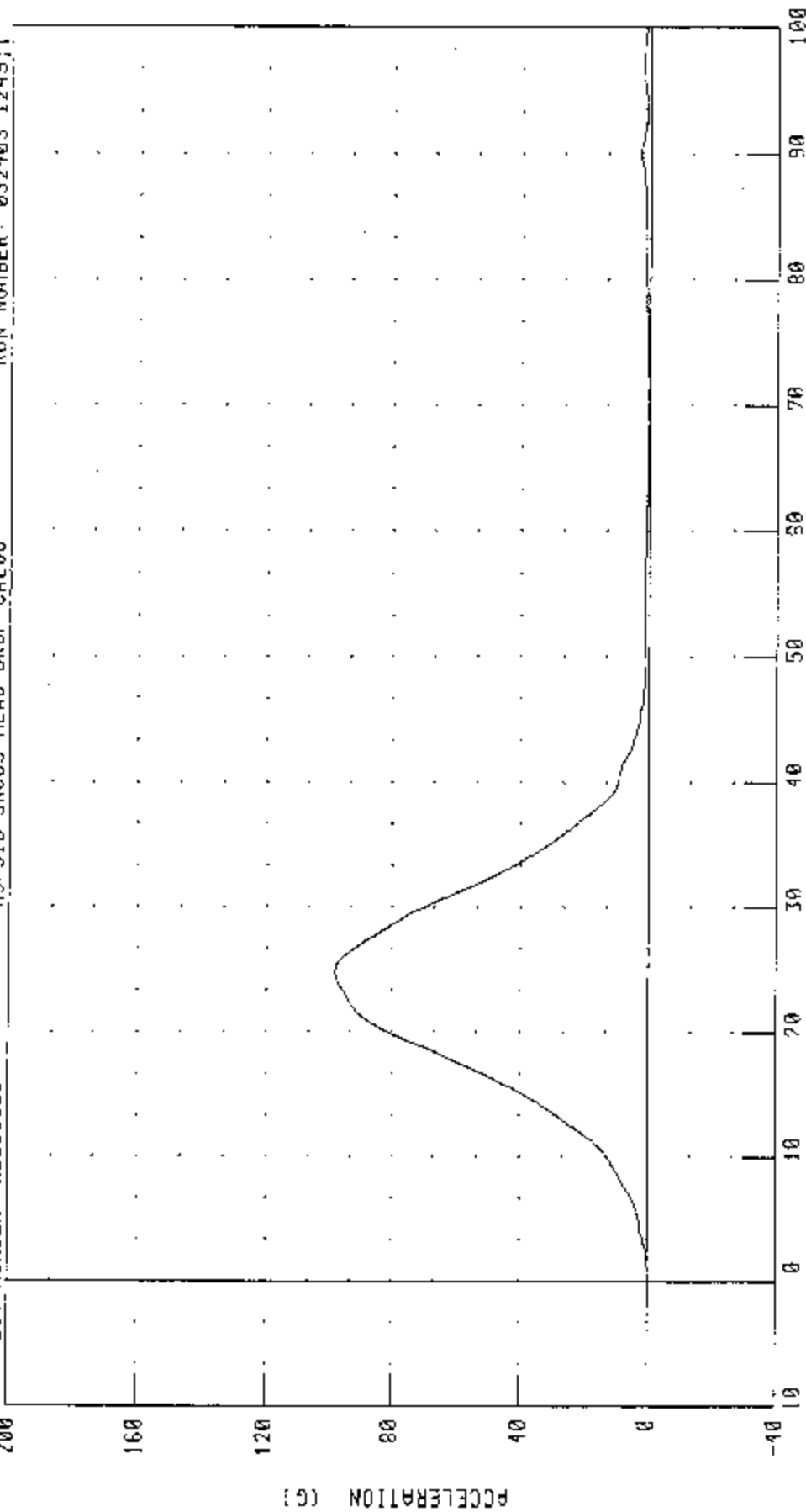
BIOSID DUMMY CALIBRATION -- 35 DEGREE LEFT LATERAL HEAD DROP

HEAD ACCELERATION Z AXIS

TRC TEST NUMBER: HDL06506

H3/SID SN065 HEAD DROP CAL06

RUN NUMBER: 032403 1249;1



CHANNFI: 4F07G FILTER: CH. CLASS 1000

PEAK D010: 98.39 G @ 2.48 MS; -0.06 G @ -0.80 MS

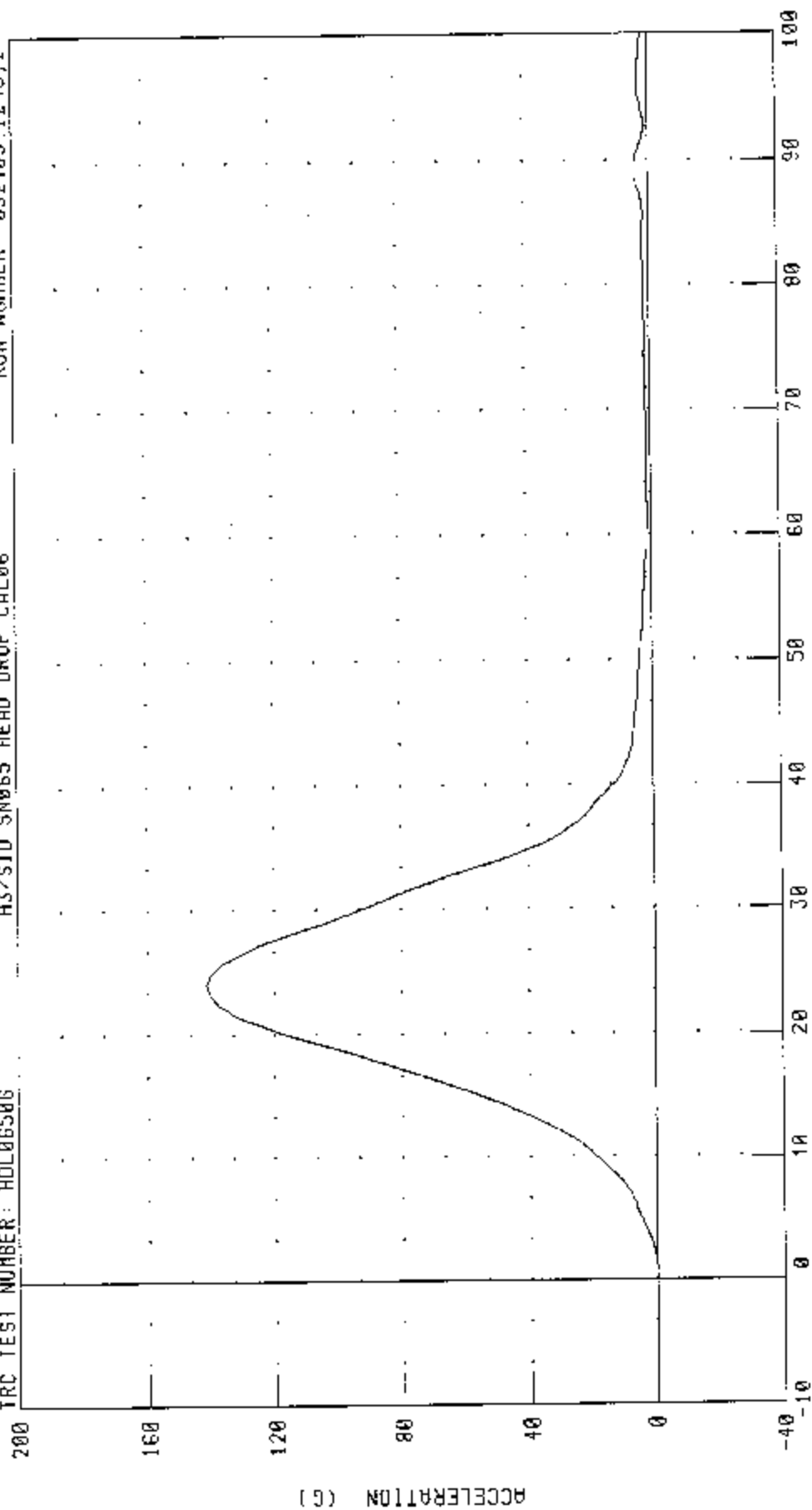
BIDSID DUMMY CALIBRATION 35 DEGREE LEFT LATERAL HEAD DROP

HEAD RESULTANT ACCELERATION

HEAD DROP CAL06

TRC TEST NUMBER: HDL06506

RUN NUMBER 032403.1249.1



TIME (MS X 10⁻¹)

CHANNEL HEADRC FILTER: CH CLASS 1000

PEAK DATA: 141 14 G 2.40 MS; 0 01 G 0 -0 96 MS

TRANSPORTATION RESEARCH CENTER INC.

LATERAL NECK TEST

HYBRIDIII SID DUMMY

24-MAR-03

LEFT SIDE CONFIGURATION

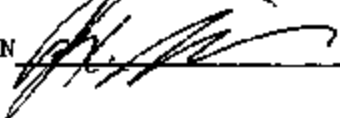
TRC INC.

TEST NO. NPL06506

H3/SID SN065 NECK LEFT CAL06

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE		20.6 - 22.2 deg. C	21.67 deg. C
RELATIVE HUMIDITY		10 - 70 %	44.00 %
IMPACT VELOCITY		6.89 - 7.13 M/S	7.06 M/S
INTEGRATED VELOCITY	10 MS	1.96 - 2.55 M/S	2.28 M/S
	20 MS	4.12 - 5.10 M/S	4.50 M/S
	30 MS	5.73 - 7.01 M/S	6.39 M/S
	40 - 70 MS	6.27 - 7.64 M/S	7.16- 7.26 M/S
MAXIMUM MIDSAGGITAL PLANE ROTATION		66 - 82 deg.	75.27 deg.
ROTATION ANGLE DECAY TIME FROM PEAK TO ZERO		58 - 67 MS	62.16 MS
MAXIMUM MOMENT ABOUT OCCIPITAL CONDYLE		73 - 88 NM	79.34 NM
POSITIVE MOMENT DECAY TIME FROM PEAK TO ZERO		49 - 64 MS	54.72 MS
TIME OF MAXIMUM ROTATION AFTER MAXIMUM MOMENT		2 - 16 MS	9.84 MS

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 032403.0931;1

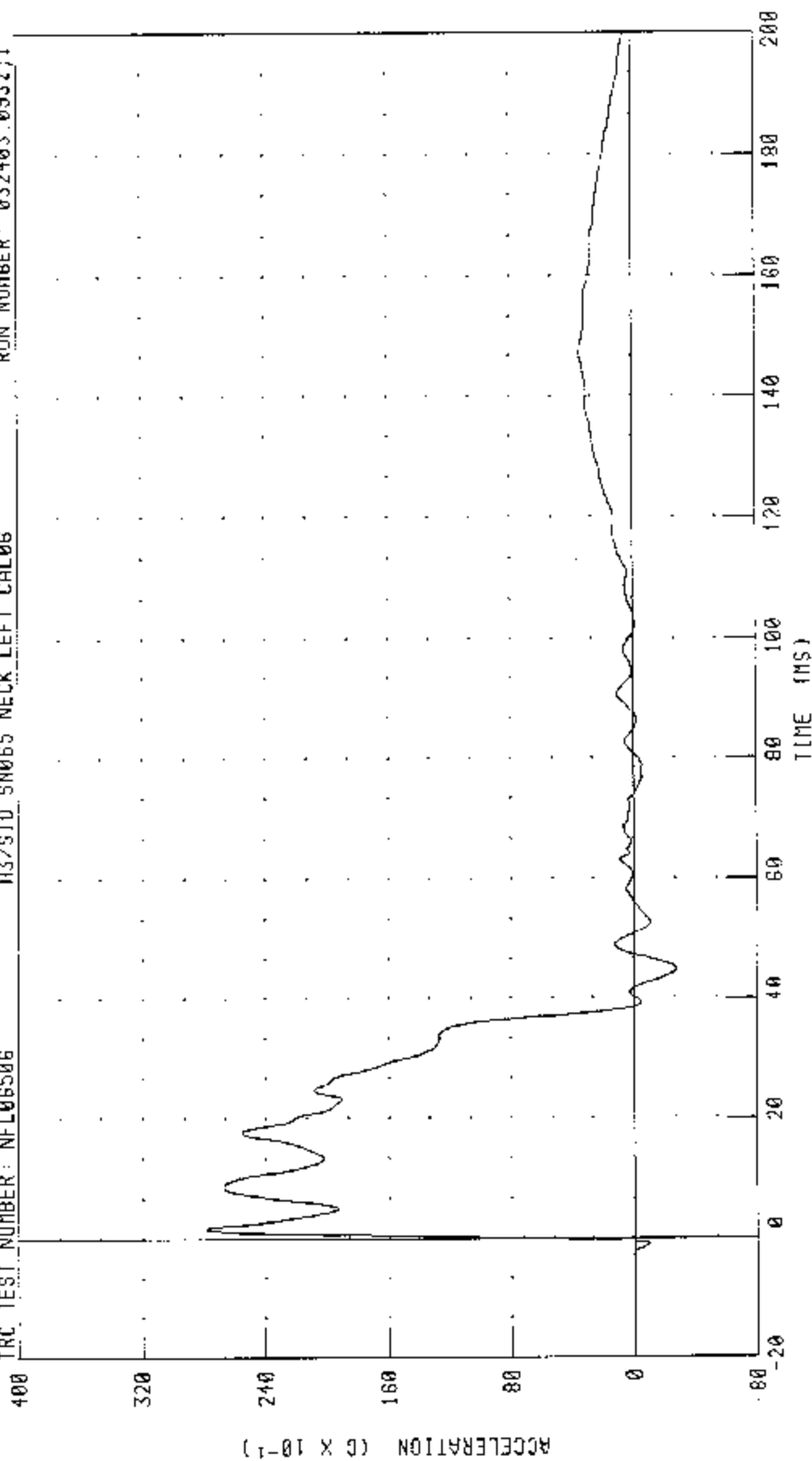
H3/S10 DUMMY CALIBRATION ... LEFT LATERAL NECK TEST

PENDULUM DECELERATION

RUN NUMBER: 032403.0932.1

H3/S10 SN065 NECK LEFT CAL06

TRC TEST NUMBER: NFL06506



PEAK DATA: 27 94 3 0 1 60 MS; -2.75 G @ 41.80 MS

CHANNEL: PENXG FILTER: CH CLASS 180

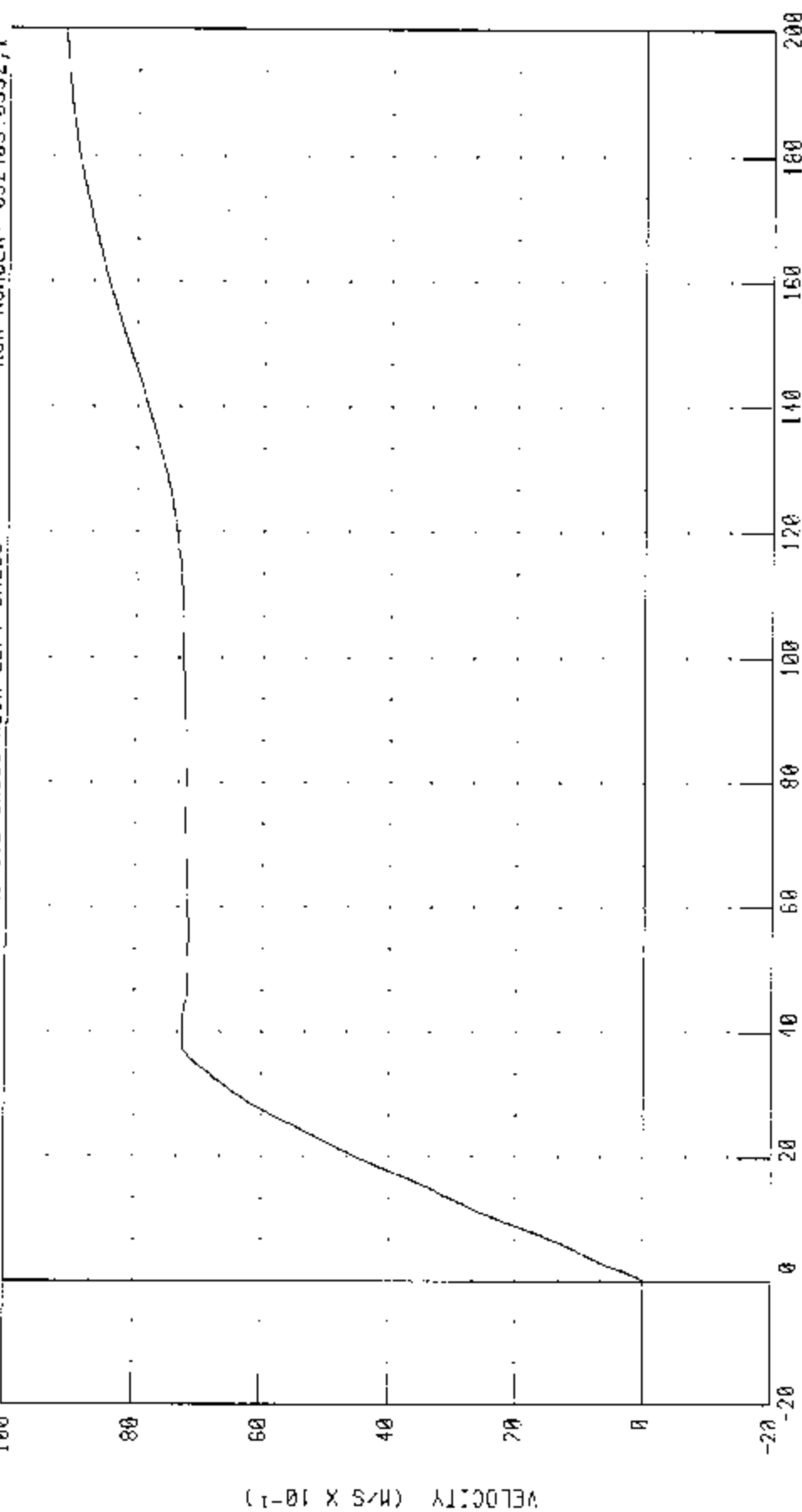
113/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

INTEGRATED PENDULUM VELOCITY

TRC TEST NUMBER NFL06506

113/SID SW06S NECK LEFT CAL06

RUN NUMBER: 032403.0932,1



TIME (MS)

CHANNEL PENXVI FILTER: CUB CLASS 180

PEAK DATA: 9 13 11/S 6 200 00 MS, -0 01 11/S 0 -0 56 MS

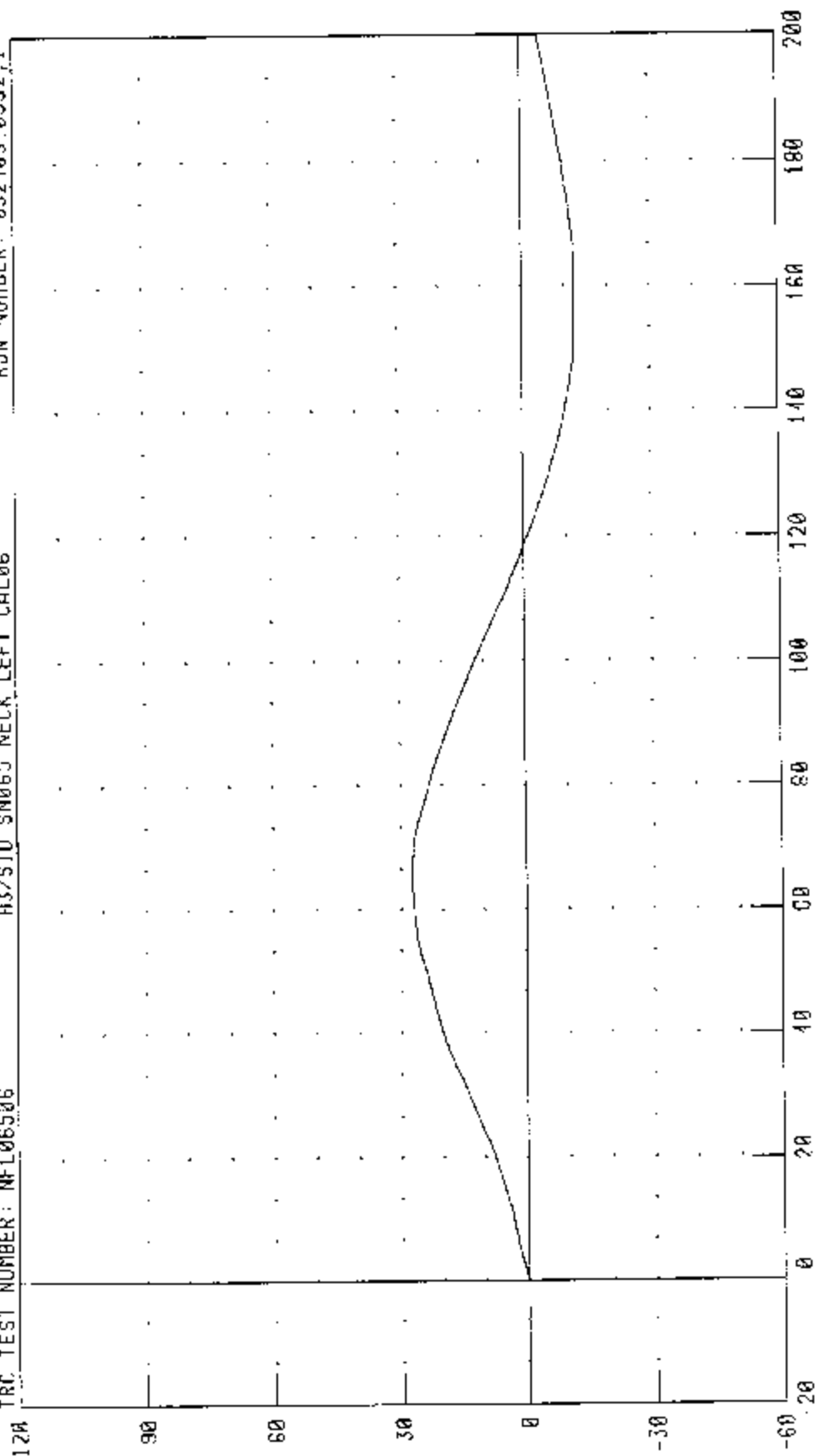
H3/SID DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

ROTATION ABOUT BASE OF NECK

H3/SID SN065 NECK LEFT CAL06

RUN NUMBER: 032403.0912.1

TRC TEST NUMBER: NFI06506



TIME (MS)

PEAK DATA: 27.28 ° @ 66.32 MS; -12.38 ° @ 157.66 MS

CHANNEL: BETA FILTER: CH CLASS 60

ANGLE (°)

C-108

030325-1

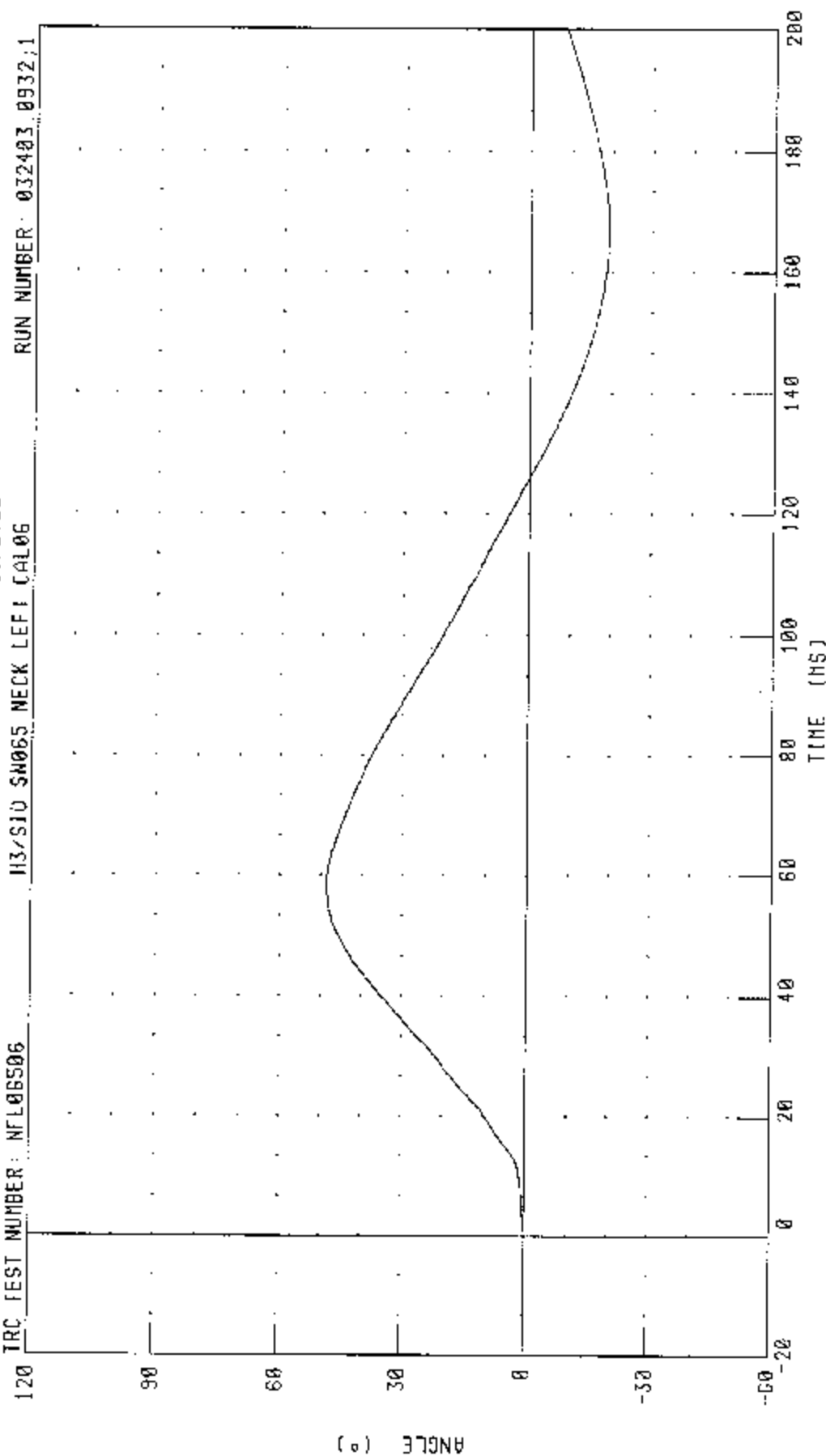
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

ROTATION ABOUT OCCIPITAL CONDYLE

TRC TEST NUMBER: NFL06506

H3/S10 SH065 NECK LEFT CAL06

RUN NUMBER 032403 0932;1



CHANNEL: THETA FILTER: CH. CLASS 60

PLAK DATA 48.41 ° @ 58.40 MS; -19.00 ° @ 166.40 MS

(°) 379NA

C-109

030325-1

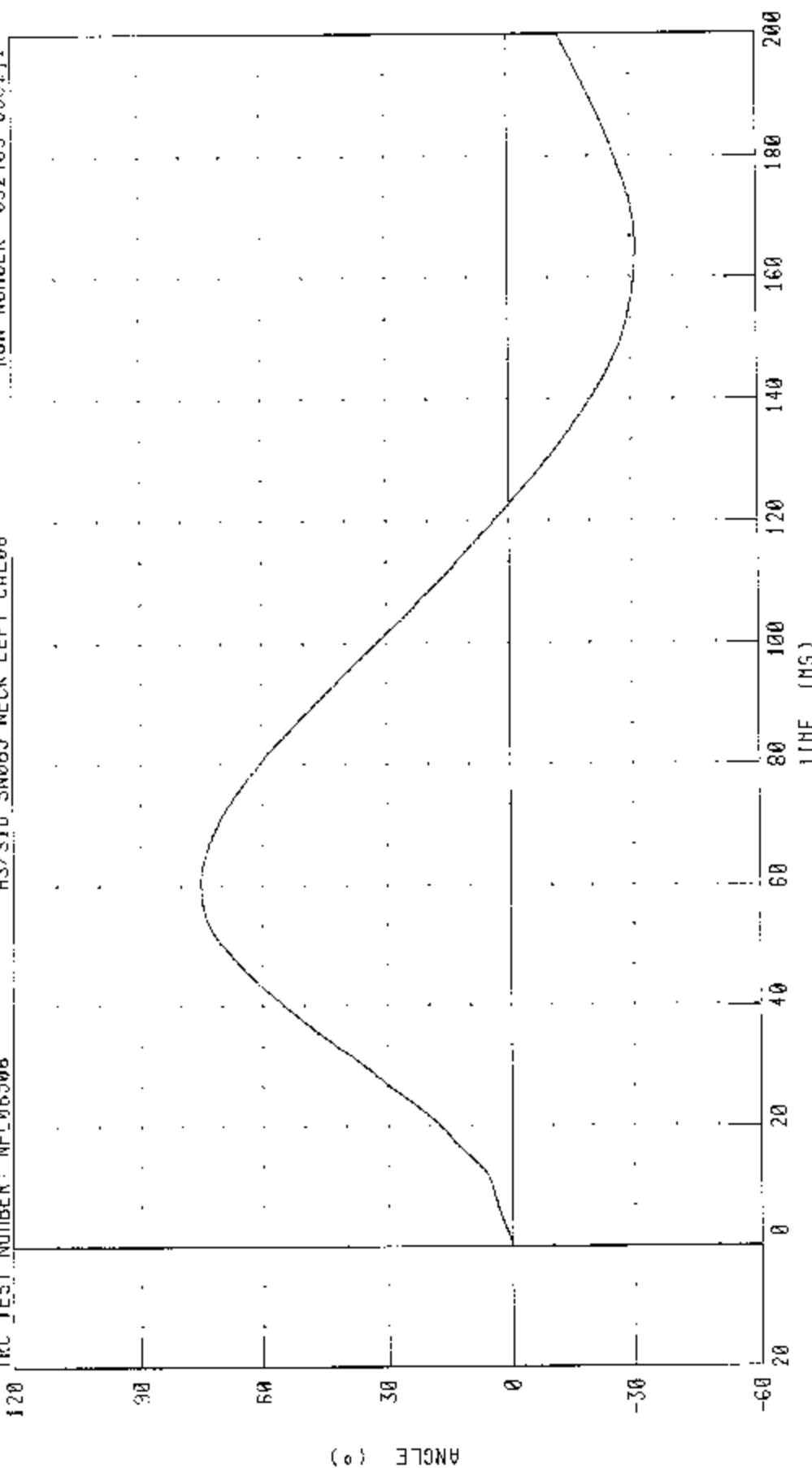
H3/SID DUMMY CALIBRATION - LEFT LATERAL NECK TEST

TOTAL ROTATION

TRC TEST NUMBER: NFL06506

H3/SID SN065 NECK LEFT CAL06

RUN NUMBER 032403 0932.1



030325-1

CHANNEL: TOTAL FILTER: CH CLASS 60

TIME (MS)

PEAK DATA: 75.27 ± 0.60.72 MS; -31.24 ° @ 165.20 MS

C-110

H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

NECK FORCE Y AXIS

RUN NUMBER: 032403.0932.1

H3/S10 SN065 NECK LEFT CAL06

TRC TEST NUMBER: NFL06506

160

120

80

40

0

-40

-80

FORCE (N X 10³)

TIME (MS)

200

180

160

140

120

100

80

60

40

20

0

-20

PEAK DATA: 990.89 N @ 55.36 MS; 304.29 N @ 153.44 MS

CHANNEL: NEKYF FILTER: CH CLASS: 1000

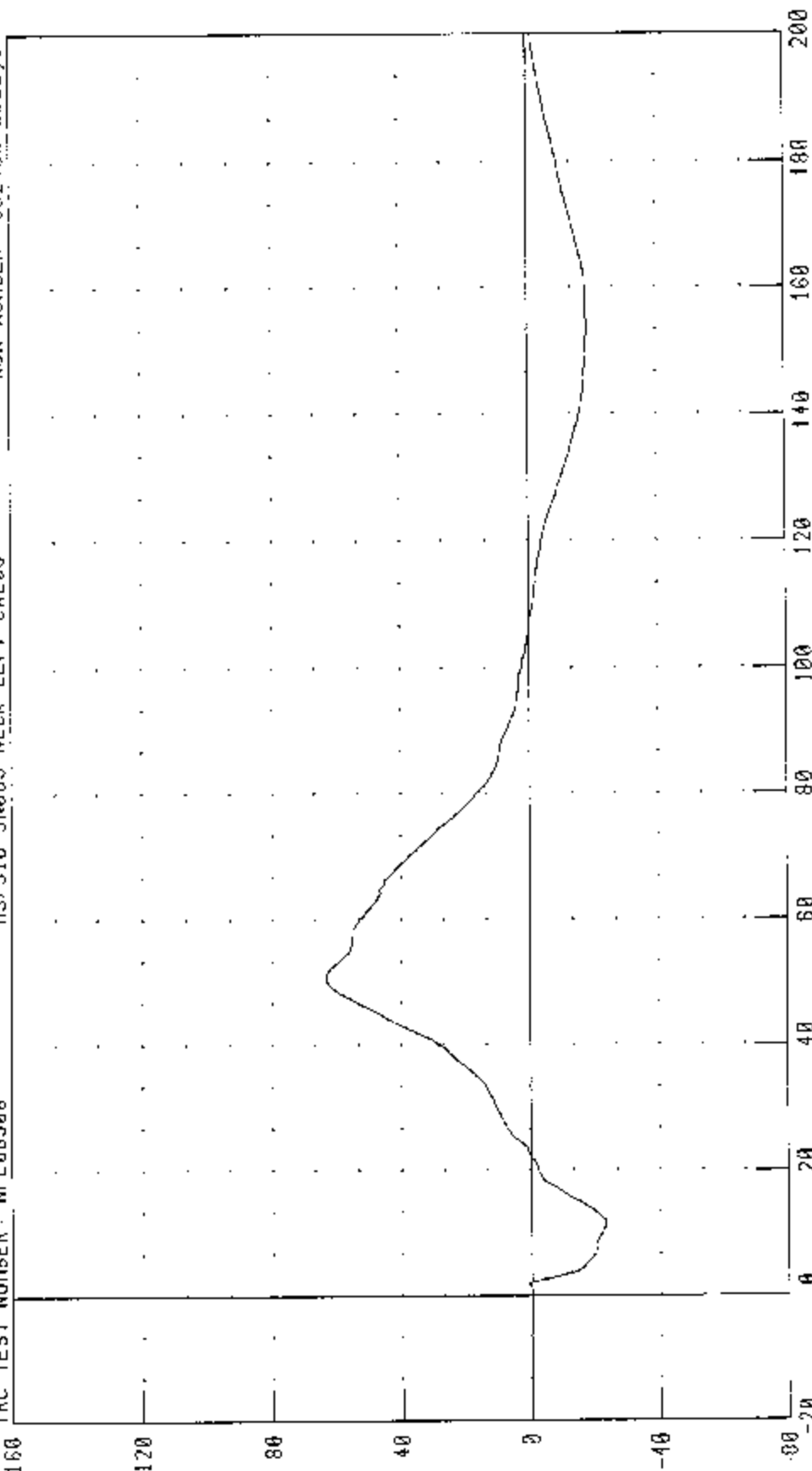
H3/S10 DUNNY CALIBRATION · LEFT LATERAL NECK TEST

NECK MOMENT X AXIS

TRC TEST NUMBER: NFL05506

H3/S10 SN065 NECK LEFT CAL06

RUN NUMBER: 032403 0932,1



TIME (MS)

PEAK DATA: 63.30 N 11 0 50 72 MS; -23.17 N 11 0 11.60 MS

CHANNEL: NEKX11 FILTER: CH. CLASS 320

TORQUE (N·m)

C-112

030325-1

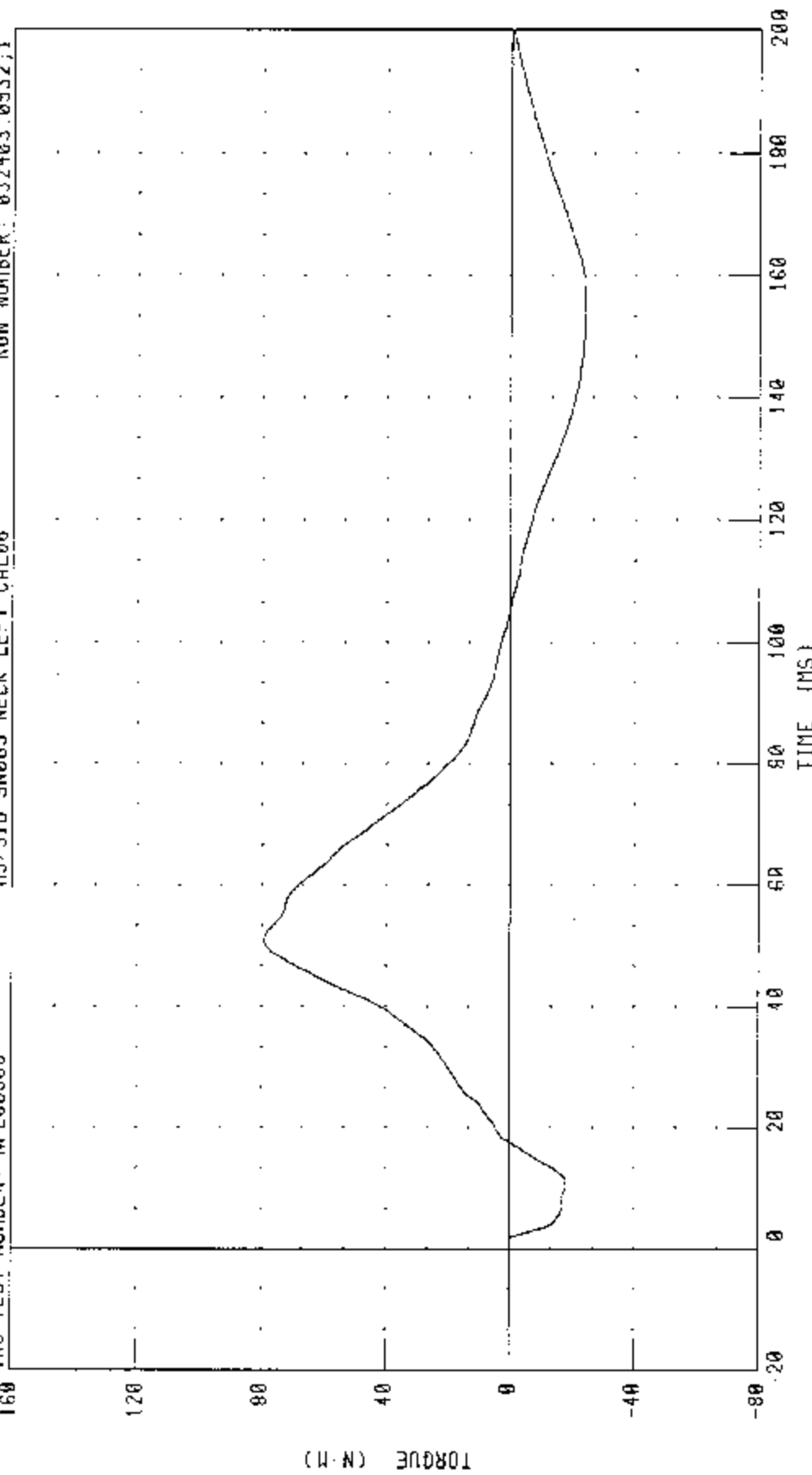
H3/S10 DUMMY CALIBRATION -- LEFT LATERAL NECK TEST

TOTAL MOMENT ABOUT OCCIPITAL CONDYLE

IRC TEST NUMBER: NFL06506

H3/S10 SN065 NECK LEFT CAL06

RUN NUMBER: 032403.0932,1



TIME (MS)

CHANNEL: NFKOM FILTER: CH. CLASS 600

PEAK DATA: 79.34 N M @ 50.88 MS; -23.00 N M @ 154.08 MS

TRANSPORTATION RESEARCH CENTER INC.

LATERAL THORAX IMPACT TEST

SIDE IMPACT DUMMY

21-MAR-03

LEFT SIDE CONFIGURATION

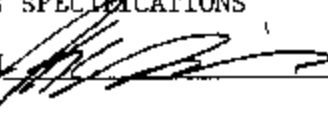
TRC INC.

TEST NO: STL06506A

572F SID SN065 L.THORAX CAL06

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	47.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.30 M/S
PEAK ACCELERATION: UPPER RIB BAR	37 - 46 G	40.9 G
PEAK ACCELERATION: LOWER RIB BAR	37 - 46 G	38.6 G
PEAK ACCELERATION: LOWER THORACIC SPINE	15 - 22 G	19.2 G

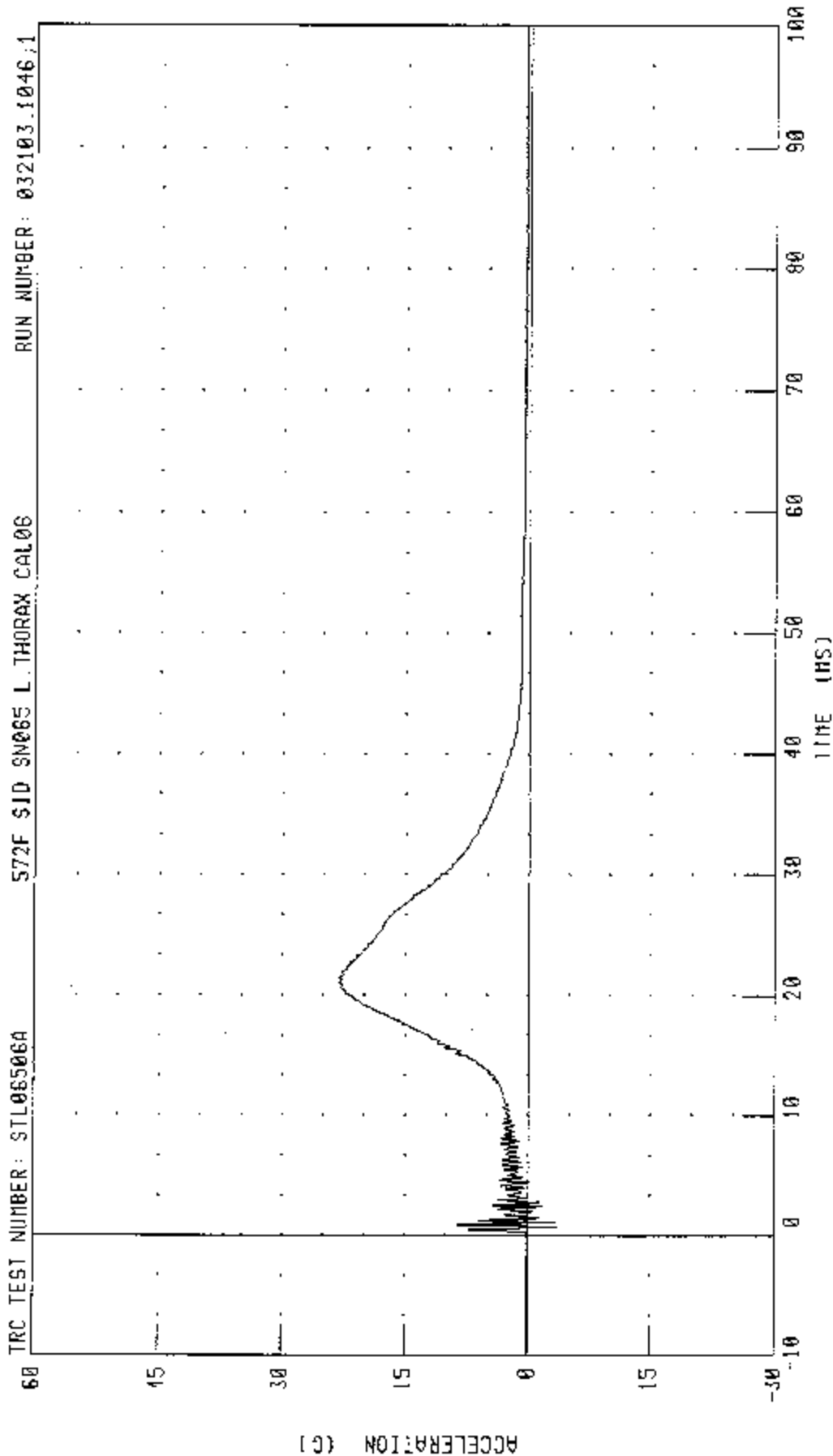
TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 032103.1046;1

PART 572-F S.I.D. THORAX CALIBRATION (LEFT SIDE IMPACT)

PENDULUM DECELERATION



PEAK DATA: 21.52 MS; -3.50 G 0.72 MS

CHANNEL: PENXG FILTER: CH. CLASS 1000

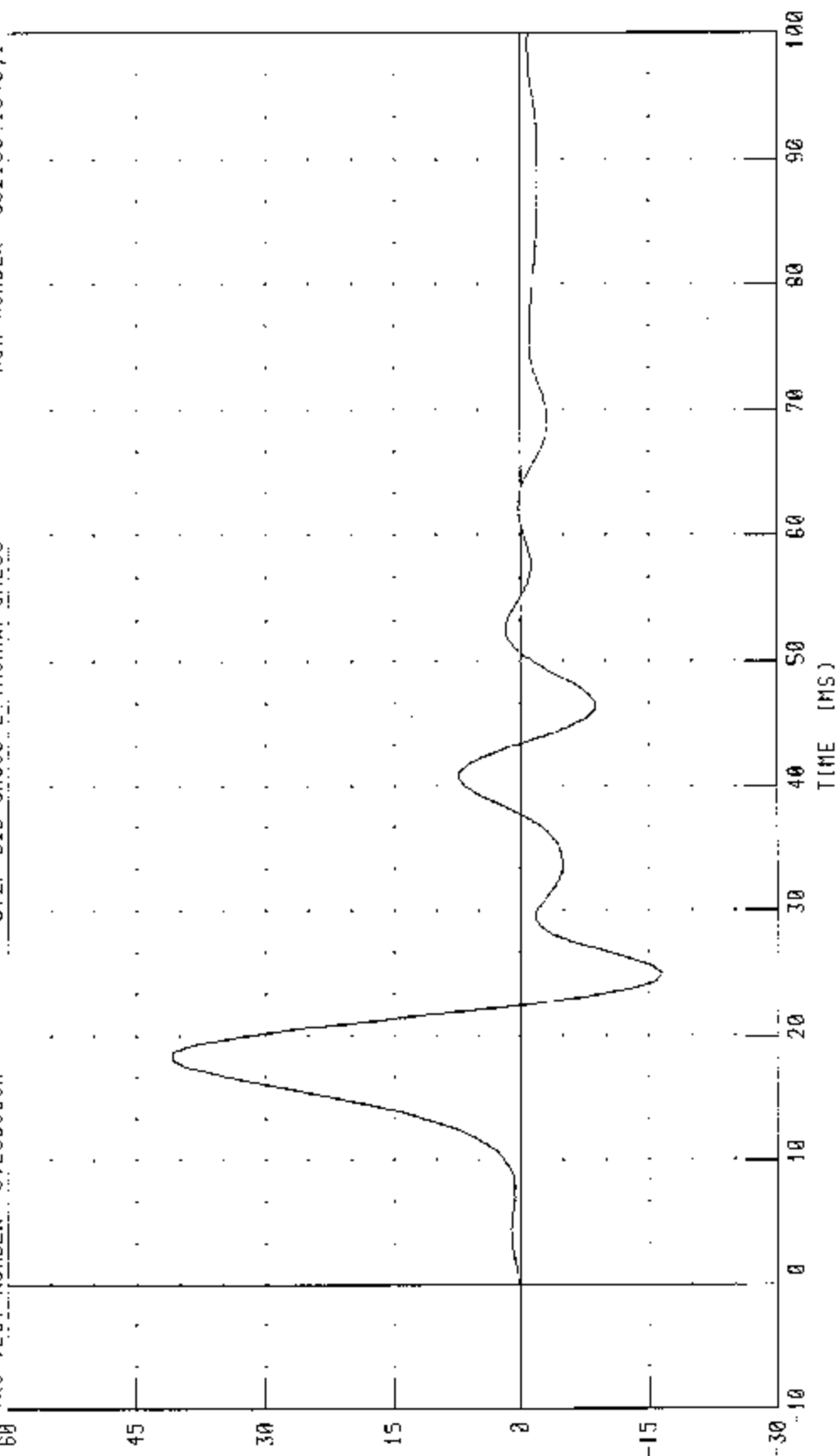
PART 572-F S.I.O. THORAX CALIBRATION - (LEFT SIDE IMPACT)

LEFT UPPER RIB ACCELERATION Y AXIS

TRC TEST NUMBER: S110B506A

572F SID SN065 L THORAX CAL06

RUN NUMBER: 032103.1046;1



ACCELERATION (G)

TIME (MS)

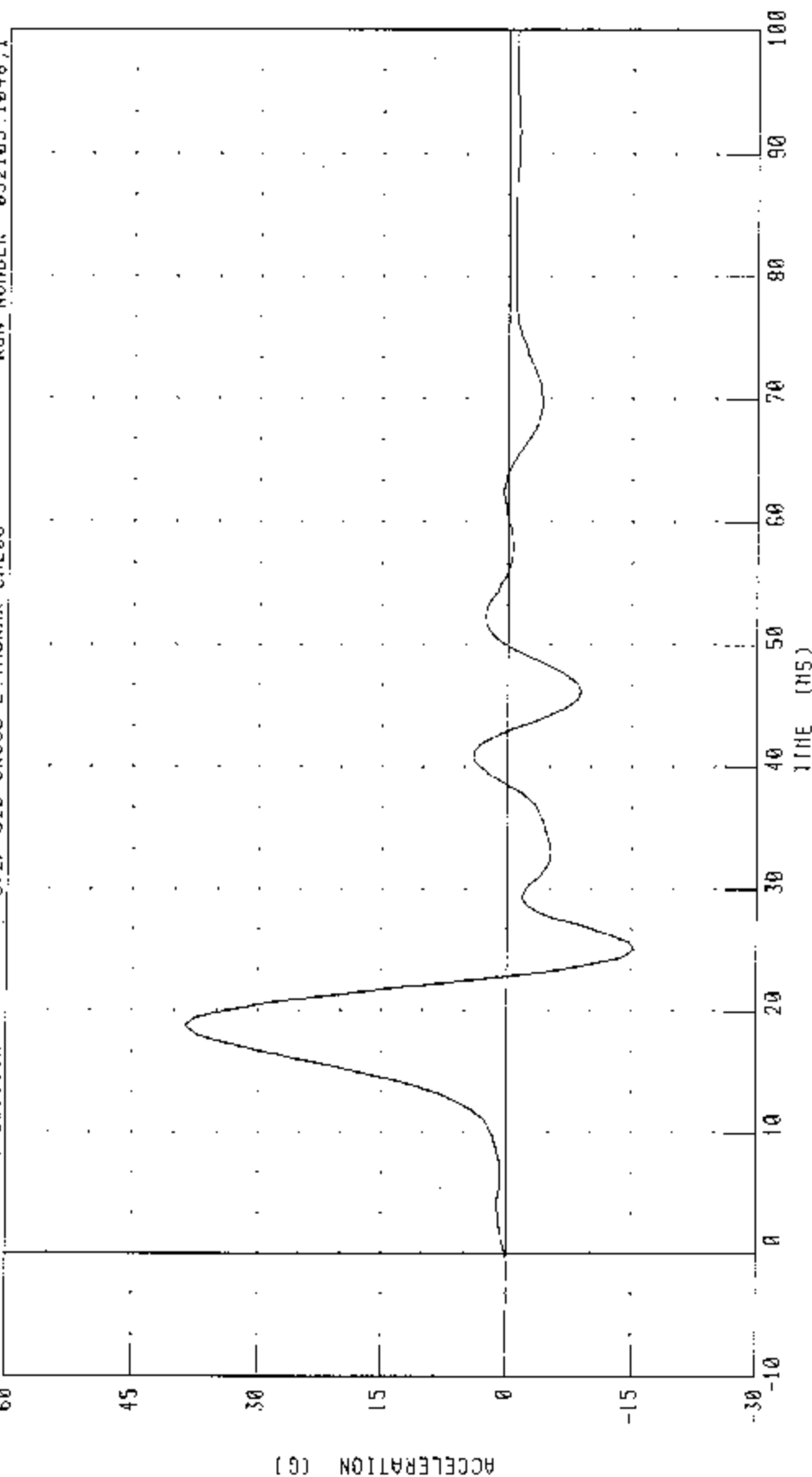
CHANNEL LURVC FILTER FIR 100

PEAK DATA: 40.80 G @ 18.13 MS, -16.50 G @ 25.00 MS

PART 572-F S.I.D. THORAX CALIBRATION (LEFT SIDE IMPACT)

LEFT LOWER RIB ACCELERATION Y AXIS

TRC TEST NUMBER: STL06506A 572F SID SN065 L THORAX CAL06 RUN NUMBER: 032103.1046.1



CHANNEL: LLRYG FILTER: FIR 100

PEAK DATA: 38 65 0 0 18 75 MS, -15 30 0 0 25 00 MS

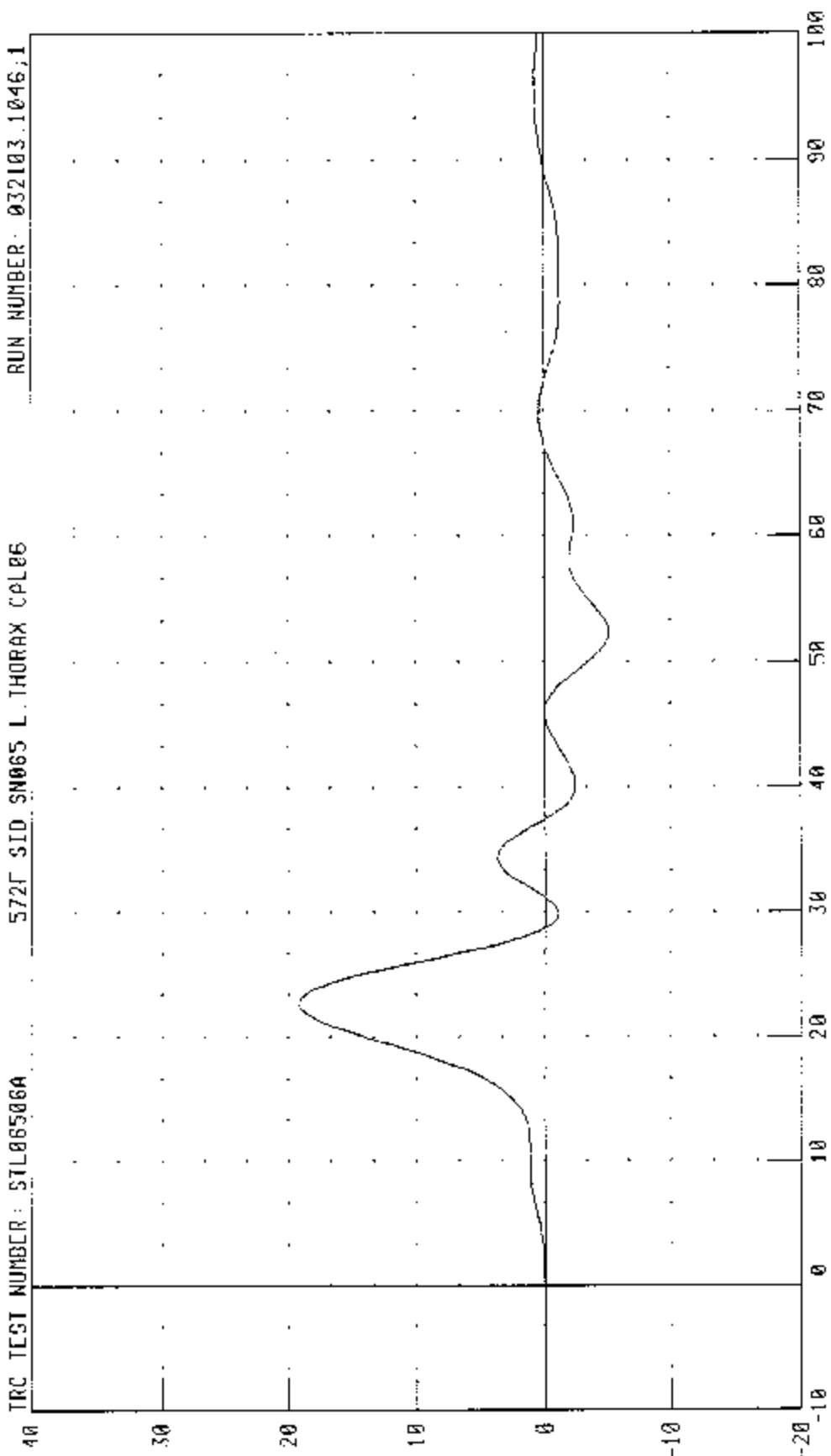
PART 572-F S.I.D THORAX CALIBRATION - (LEFT SIDE IMPACT)

LOWER SPINE ACCELERATION Y AXIS

572F SID SN065 L THORAX CPL06

TRC TEST NUMBER: STL06506A

40



PEAK DATA 19 18 G @ 22 50 MS, -5 09 G @ 52 50 MS

CHANNEL: 112YG FILTER: FIR 100

Transportation Research Center Inc.

572B Abdomen Compression Test

HIII SID Serial No. 065 Calibration No. 06 - 1

Test Date 03/21/2003

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.7 °C	Yes
Relative Humidity	10 - 70 %	46 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.0 - 8.4 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Comments:

Technician



Approved



03.21.2003 14:23:24 10

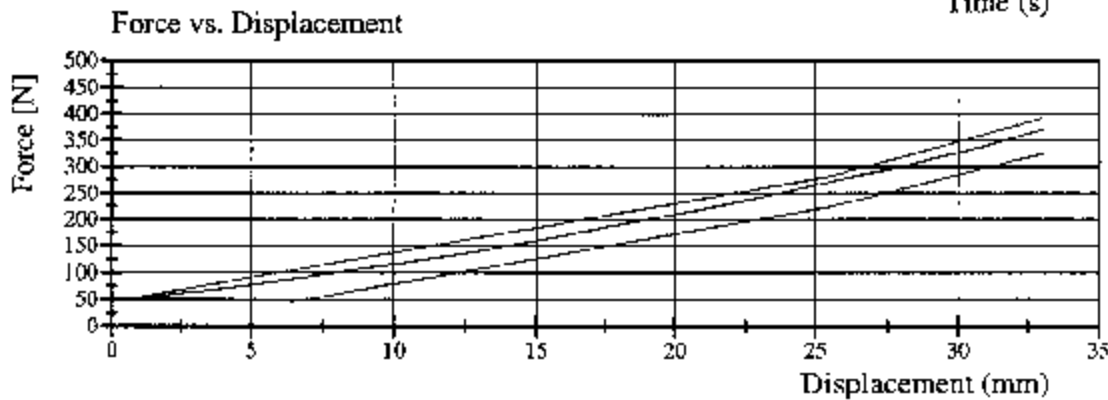
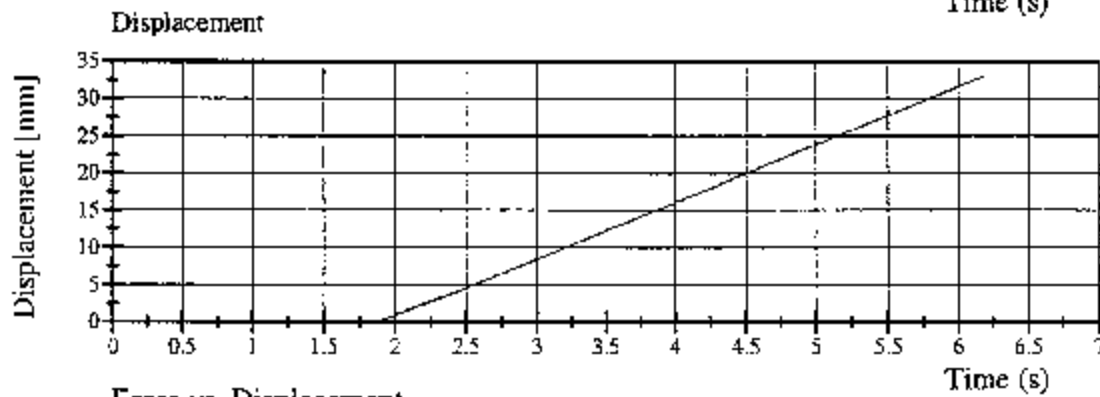
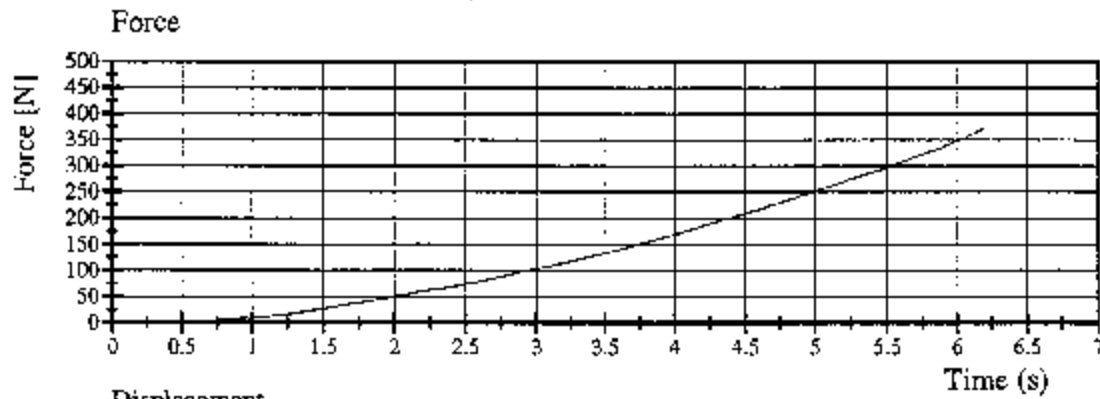


Transportation Research Center Inc.

572B Abdomen Compression Test

HIH SID Serial No. 065 Calibration No. 06 - 1

Test Date 03/21/2003



03.21.2003 14:23:25 10



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 27-Feb-03

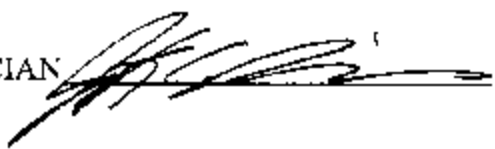
TRC, INC.

TEST NO: 065C06TF1

572B SN 065 TORSO FLEX CAL 06

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.1 °C
RELATIVE HUMIDITY	10 - 70 %	45 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	120.1 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	186.8 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	226.7 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	8 °

TEST MEETS SPECIFICATIONS

TECHNICIAN 

TRANSPORTATION RESEARCH CENTER INC.

LATERAL PELVIS IMPACT TEST

SIDE IMPACT DUMMY

21-MAR-03

LEFT SIDE CONFIGURATION

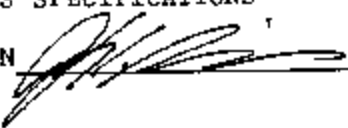
TRC INC.

TEST NO: SPL06506

572F SN065 LEFT PELVIS CAL06

TEST PARAMETER	SPECIFICATION (ABSOLUTE VALUE)	TEST RESULTS
TEMPERATURE	18.9 - 25.5 C	21.7 DEG. C
RELATIVE HUMIDITY	10 - 70 %	47.0 %
PENDULUM VELOCITY	4.21 - 4.33 M/S	4.30 M/S
PEAK PELVIC ACCELERATION	40 - 60 G	56.3 G
TIME ABOVE 20 G LEVEL	3 - 7 NS	5.9 NS
IS ACCELERATION CURVE UNIMODAL?	YES	YES

TEST MEETS SPECIFICATIONS

TECHNICIAN 

RUN NUMBER: 032103.0934;1

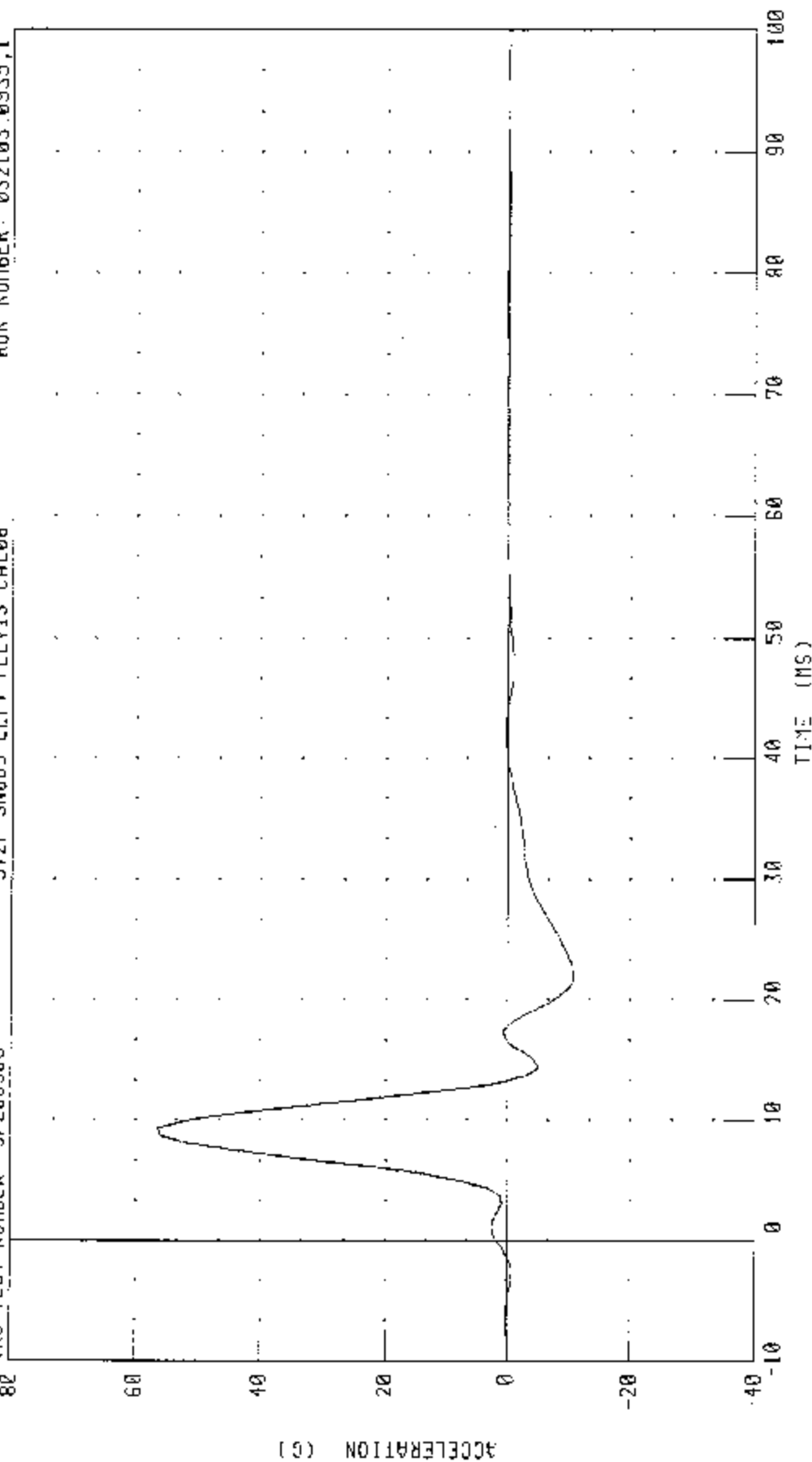
PART 572-F S I O. PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PELVIS ACCELERATION Y AXIS

TRC TEST NUMBER: SPL06506

572F SN065 LEFT PELVIS CAL06

RUN NUMBER: 032103.0935.1



CHANNEL: PELVIS FILTER: FIR 100

PEAK DATA: 55.20 0 0 9 37 MS, -10.84 0 0 21.00 RS

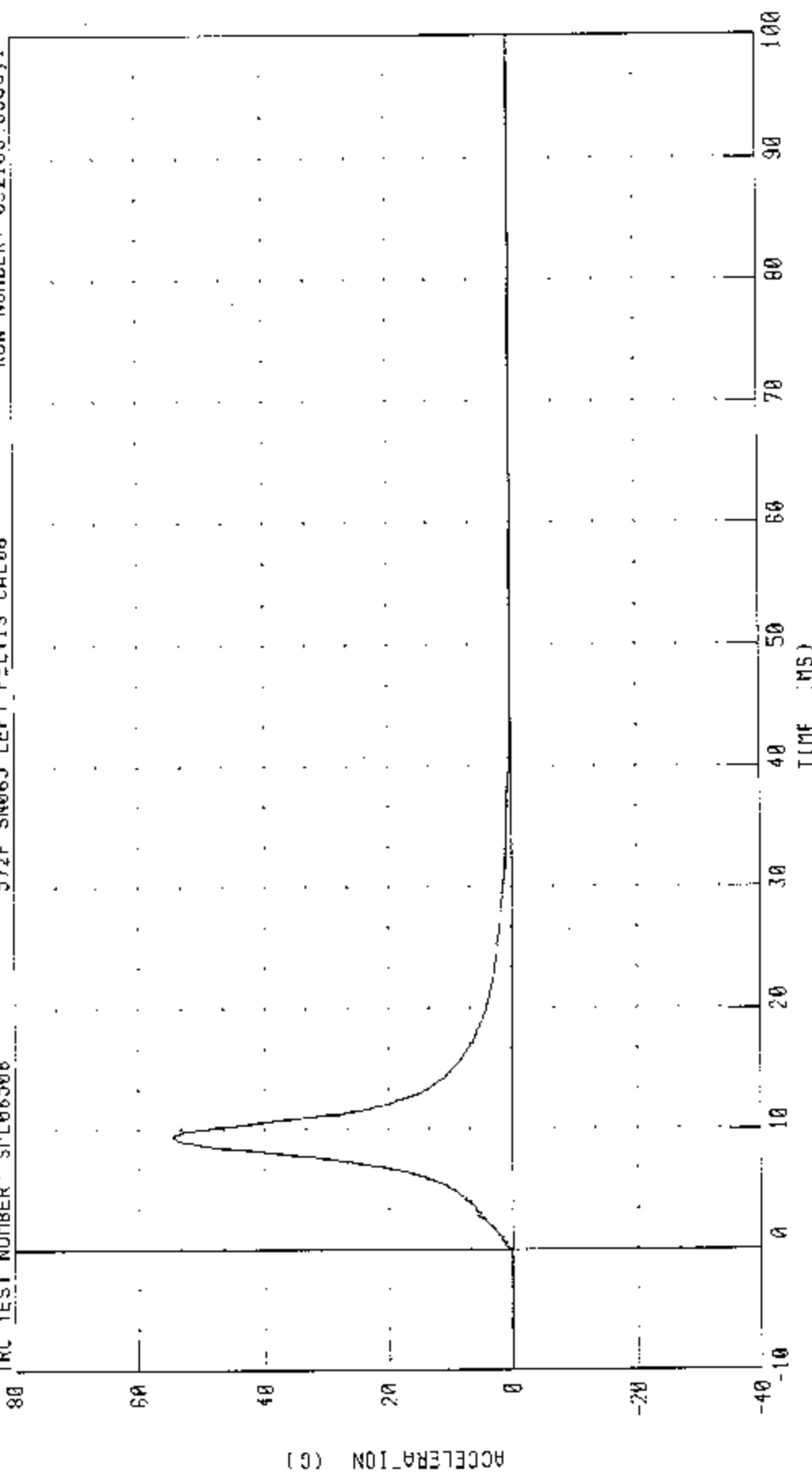
PART 572 F S.I.D. PELVIS CALIBRATION - (LEFT SIDE IMPACT)

PENDULUM DECELERATION

572F SN065 LEFT PELVIS CAL06

TRC TEST NUMBER: SPL06506

RUN NUMBER: 032103.0935;1



CHANNEL: PENXC

FILTER: CH CLASS 1000

PEAK DATA: 54 71 0 0 9.44 MS; -0 12 0 0 70 32 MS

Transportation Research Center Inc.

SID Pre-Use Inspection

Type: Hill SID S/N: 066Mfr: DentonTest Date: 03/25/03Proj./Seg. No.: 20020455-1110Test Eng.: G. Watters

ITEM	PRE-USE	
HEAD:		
Head Ballast Condition	X	
Accel. Mount Bolts and Cables	X	
Skull Cap Bolts	X	
Head Skin Condition	X	
Accel. Cable Exit (left or right)	(Left)	(Right)
NECK:		
Rubber Condition and Separation From End Caps	X	
THORAX:		
Stacked Shoulder Foams and Bolts	X	
* Rib Cage Spring and Support Assembly	X	
* Rib Cage Bolts	X	
* Damper Rear Attachment Ring, Pivot Pins, and Bracket	X	
* Location and Adjustment of Chest Pot Bracket and Collars	X	
* Chest Pot Rod End Nuts and Eyebolt	X	
Arm Foam Orientation	X	
Thorax/Lumbar Spine Bolts	X	
PELVIS:		
Tightness and Alignment of H-Point Tool Insert	X	
* Hips Range of Motion and 1-2g Adjustment (before calibration only)	X	
Upper Femur Bolt Adjustment and Position	X	
Check Spine Kits (Yellow tape = Kits/No tape = No kits)	(With) X	(Without)
LEGS AND FEET:		
Femur Load Cell Bolts (40 ft/lbs)	X	
Breakaway Femur Bolts (5-6 ft/lbs)	X	
Knee Joint Function and Range of Motion	X	
Leg Skin Condition and Position	X	
Ankle Range of Motion	X	
Foot Condition	X	
OTHER:		
Cleanliness	X	
Target Position	X	
Clothes	X	
Shoes	X	
Knee & Ankle One G Joint Adjustments	X	

Inspection Completed By: J. ClaridgeDate: 03/24/03

Transportation Research Center Inc.

SID Pre-Use Inspection

Type: HIH SID S/N: 065Mfr: DentonTest Date: 03/24/03Proj./Seg. No.: 20020455-1110Test Eng.: G. Watters

ITEM	PRE-USE	
HEAD:		
Head Ballast Condition	X	
Accel. Mount Bolts and Cables	X	
Skull Cap Bolts	X	
Head Skin Condition	X	
Accel. Cable Exit (left or right)	(Left)	(Right)
NECK:		
Rubber Condition and Separation From End Caps	X	
THORAX:		
Stacked Shoulder Foams and Bolts	X	
* Rib Cage Spring and Support Assembly	X	
* Rib Cage Bolts	X	
* Damper Rear Attachment Ring, Pivot Pins, and Bracket	X	
* Location and Adjustment of Chest Pot Bracket and Collars	X	
* Chest Pot Rod End Nuts and Eyebolt	X	
Arm Foam Orientation	X	
Thorax/Lumbar Spine Bolts	X	
PELVIS:		
Tightness and Alignment of H-Point Tool Insert	X	
* Hips Range of Motion and 1-2g Adjustment (before calibration only)	X	
Upper Femur Bolt Adjustment and Position	X	
Check Spine Kits (Yellow tape = Kits/No tape = No kits)	(With) X	(Without)
LEGS AND FEET:		
Femur Load Cell Bolts (40 ft/lbs)	X	
Breakaway Femur Bolts (5-6 ft/lbs)	X	
Knee Joint Function and Range of Motion	X	
Leg Skin Condition and Position	X	
Ankle Range of Motion	X	
Foot Condition	X	
OTHER:		
Cleanliness	X	
Target Position	X	
Clothes	X	
Shoes	X	
Knee & Ankle One G Joint Adjustments	X	

Inspection Completed By: J. ClarridgeDate: 03/24/03

Transportation Research Center Inc.

SID Post-Use Inspection

Type: HIH SID S/N: 066

Mfr: Denton

Test Date: 03/25/03

Proj./Seg. No.: 20020455-1110

Test Eng.: G. Watters

ITEM	POST-USE
HEAD:	
Head Skin Condition	X
Head Ballast Condition	X
NECK:	
Rubber Condition and Separation From End Caps	X
THORAX:	
Jacket Condition	X
Arm Foam Condition	X
Damper and Chest Pot Movement and Condition	X
Rib Cage Spring and Support Assembly Condition	X
Rib Wrap Condition	X
Abdomen condition	X
Thorax/Lumbar Spine Bolts	X
Lumbar Spine Condition and Separation From End Caps	X
PELVIS:	
Iliac Crest bone	X
Flesh Condition	X
Hip Range of Motion	X
LEGS AND FEET:	
Knee Skins and Castings Condition	X
Leg Skin Condition	X
Foot Condition	X
Knee Joint Range of Motion	X
Ankle Range of Motion	X

NOTES: No damage to report.

Inspection Completed By: J. Clarridge

Date: 03/27/03

Transportation Research Center Inc.

SID Post-Use Inspection

Type: HIII SID S/N: 065

Mfr: Denton

Test Date: 03/25/03

Proj./Seg. No.: 2002455-1110

Test Eng.: G. Watters

ITEM	POST-USE
HEAD:	
Head Skin Condition	X
Head Ballast Condition	X
NECK:	
Rubber Condition and Separation From End Caps	X
THORAX:	
Jacket Condition	X
Arm Foam Condition	X
Damper and Chest Pot Movement and Condition	X
Rib Cage Spring and Support Assembly Condition	X
Rib Wrap Condition	X
Abdomen condition	X
Thorax/Lumbar Spine Bolts	X
Lumbar Spine Condition and Separation From End Caps	X
PELVIS:	
Iliac Crest bone	X
Flesh Condition	X
Hip Range of Motion	X
LEGS AND FEET:	
Knee Skins and Castings Condition	X
Leg Skin Condition	X
Foot Condition	X
Knee Joint Range of Motion	X
Ankle Range of Motion	X

NOTES: No damage to report.

Inspection Completed By: J. Clarridge

Date: 03/27/03

Appendix D

Test Equipment List and Calibration Information

SAE J211 MAR95

Accelerometers:

+X: Forward
+Y: Rightward
+Z: Downward

Potentiometers:

+Chest longitudinal deflection:	Outward
+Chest lateral deflection:	Rightward
+Seat belt displacement:	Outward
+Seat belt extension:	Elongation
+Knee slider displacement:	Distance between femur and tibia increased (in relation to a seated dummy)

Rotation potentiometers:

+About the X-axis:	Left foot-eversion
	Right foot-inversion
+About the Y-axis:	Left/right foot-dorsiflexion
+About the Z-axis:	Left foot-internal
	Right foot-external

Load cells:

+Femur force:	Tension
+Seat belt force:	Tension
+Barrier force:	Tension

Neck load cells:

- +X force: Head pushed rearward
- +Y force: Head pushed leftward
- +Z force: Head pulled upward (tension on neck)
- +X moment: Left ear rotating toward left shoulder
- +Y moment: Chin rotating toward chest
- +Z moment: Chin rotating toward left shoulder

Tibia load cells:

+X force:	Ankle forward, knee rearward
+Y force:	Ankle rightward, knee leftward
+Z force:	Tension
+X moment:	Bottom of tibia moving leftward
+Y moment:	Bottom of tibia moving rearward

Sign Convention, Cont'd.
SAE J211 MAR95

Lumbar load cells:

+X force:	Chest rearward, pelvis forward
+Y force:	Chest leftward, pelvis rightward
+Z force:	Chest upward, pelvis downward
+X moment:	Left shoulder toward left hip
+Y moment:	Sternum toward front of legs
+Z moment:	Right shoulder forward, left shoulder rearward

Frequency Response Classes
SAE J211 MAR95

<u>Typical Test Measurements</u>	<u>Channel Class</u>
Vehicle Structural Accelerations for use in:	
Total vehicle comparison	60
Collision simulation input	60
Component analysis	600
Integration for velocity or displacement	180
Barrier Face Forces	60
Belt Restraint System Loads	60
Anthropomorphic Test Device	
Head accelerations (linear and angular)	1000
Neck	
Forces	1000
Moments	600
Thorax	
Spine accelerations	180
Rib accelerations	1000
Sternum accelerations	1000
Deflections	600
Lumbar	
Forces	1000
Moments	1000
Pelvis	
Accelerations	1000
Forces	1000
Moments	1000
Femur/Knee/Tibia/Ankle	
Forces	600
Moments	600
Displacements	180
Sled Accelerations	60
Steering Column Loads	600
Head form Accelerations	1000

The direction column on the following sheets describes the transducer output as mounted and wired in the test location. The polarity column indicates whether a polarity change occurred during data acquisition to conform to J211 MAR95. See Report Sign Convention sheet for description of data output as presented in the report: occasionally channels have been adjusted in post-acquisition processing to conform to J211 MAR95.

Channel Report

3/25/2003 7:55:53 AM

Name of Test 030325-1

System

MINIDAU

Name of DAU DAU6

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
6001	J26980	HEDXG1	Head Accel X	Rwd	790.56265	-	3/11/2003	OK	Endevco	7264-2000TZ
6002	J27048	HEDYG1	Head Accel Y	Lft	800.20005	-	3/11/2003	OK	Endevco	7264-2000TZ
6003	J26896	HEDZG1	Head Accel Z	Up	788.48078	-	3/11/2003	OK	Endevco	7264-2000TZ
6004	P22890	HEDXR1	Head Accel X Red	Rwd	796.35419	-	3/11/2003	OK	Endevco	7264C-2K-2-180
6005	P16213	HEDYR1	Head Accel Y Red	Lt	805.41135	-	3/11/2003	OK	Endevco	7264C-2K-2-180
6006	P18941	HEDZR1	Head Accel Z Red	Up	808.42530	-	3/11/2003	OK	Endevco	7264C-2K-2-180
6007	1716A-1220-FX	NEKXF1	Neck Force X	Hd	8898.1070	-	3/10/2003	OK	Denton	1716A
6008	1716A-1220-FY	NEKYF1	Neck Force Y	Hd	8909.1398	+	3/10/2003	OK	Denton	1716A
6009	1716A-1220-FZ	NEKZF1	Neck Force Z	Hd	13333.677	+	3/10/2003	OK	Denton	1716A
6010	1716A-1220-MX	NEKXM1	Neck Moment X	Rt Ear	282.42740	-	3/10/2003	OK	Denton	1716A
6011	1716A-1220-MY	NEKYM1	Neck Moment Y	Chn	282.25499	+	3/10/2003	OK	Denton	1716A
6012	1716A-1220-MZ	NEKZM1	Neck Moment Z	Chn	282.90480	+	3/10/2003	OK	Denton	1716A
6013	P24511	LURYG1	Left Upper Rib Y	Rgt	799.87501	+	11/21/2002	OK	Endevco	7264C-2K-2-180
6014	P21652	LURYR1	Left Upper Rib Red Y	Rgt	803.23805	+	11/21/2002	OK	Endevco	7264C-2K-2-180
6015	P24508	LLRYG1	Left Lower Rib Y	Rgt	803.12465	+	11/21/2002	OK	Endevco	7264C-2K-2-180
6016	P24627	LLRYR1	Left Lower Rib Red Y	Rgt	801.56555	+	11/21/2002	OK	Endevco	7264C-2K-2-180
6017	P21635	T12YG1	Lower Spine Y	Lft	401.99742	-	11/21/2002	OK	Endevco	7264C-2K-2-180
6018	P24564	T12YR1	Lower Spine Red Y	Lft	401.56862	-	11/21/2002	OK	Endevco	7264C-2K-2-180
6019	P24393	PEVYG1	Pelvis Accel Y	Lft	401.26964	-	11/21/2002	OK	Endevco	7264C-2K-2-180
6020	P24559	PEVYR1	Pelvis Accel Red Y	Lft	402.26272	-	11/21/2002	OK	Endevco	7264C-2K-2-180
6021	J27271	HEDXG4	Head Accel X	Rwd	800.50031	-	3/11/2003	OK	Endevco	7264-2000TZ
6022	J27352	HEDYG4	Head Accel Y	Lft	793.42941	-	3/11/2003	OK	Endevco	7264-2000TZ
6024	J27283	HEDZG4	Head Accel Z	Up	809.34541	-	3/11/2003	OK	Endevco	7264-2000TZ
6025	J29134	HEDXR4	Head Accel X Red	Rwd	793.89691	-	3/11/2003	OK	Endevco	7264-2000TZ
6026	J29020	HEDYR4	Head Accel Y Red	Lt	802.35692	-	3/11/2003	OK	Endevco	7264-2000TZ
6027	J27322	HEDZR4	Head Accel Z Red	Up	814.06811	-	3/11/2003	OK	Endevco	7264-2000TZ
6028	1716-0627-FX	NEKXF4	Neck Force X	Hd	8900.5691	-	3/10/2003	OK	Denton	1716
6029	1716-0627-FY	NEKYF4	Neck Force Y	Hd	8904.8480	+	3/10/2003	OK	Denton	1716
6030	1716-0627-FZ	NEKZF4	Neck Force Z	Hd	13331.510	+	3/10/2003	OK	Denton	1716
6031	1716-0627-MX	NEKXM4	Neck Moment X	Rt Ear	282.90624	-	3/10/2003	OK	Denton	1716
6032	1716-0627-MY	NEKYM4	Neck Moment Y	Chn	282.62862	+	3/10/2003	OK	Denton	1716

030325-1

Channel Report

3/25/2003 7:55:53 AM

Name of Test 030325-1

System MINIDAU

Name of DAU DAU7

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	N'm	Pol. Cal.	Group	Mfg.	Model
7001	I716-0627-MZ	NEKZM4	Neck Moment Z	Chn	282.46679	g	+ 3/10/2003	OK	065nlr	Denton
7002	P23068	LURYG4	Left Upper Rib Y	Rgt	804.05798	g	+ 12/19/2002	OK	065nlr	Endevco
7003	P23067	LURYR4	Left Upper Rib Red Y	Rgt	808.88509	g	+ 12/19/2002	OK	065nlr	Endevco
7004	P23389	LLRYG4	Left Lower Rib Y	Rgt	799.52528	g	+ 12/19/2002	OK	065nlr	Endevco
7005	P23395	LLRYR4	Left Lower Rib Red Y	Rgt	788.95463	g	+ 12/19/2002	OK	065nlr	Endevco
7006	P14826	T12YG4	Lower Spine Y	Lft	401.80813	g	+ 12/19/2002	OK	065nlr	Endevco
7007	P23069	T12YR4	Lower Spine Red Y	Lft	398.15851	g	+ 12/19/2002	OK	065nlr	Endevco
7008	P23397	PEVYG4	Pelvis Steel Y	Lft	400.34404	g	+ 12/19/2002	OK	065nlr	Endevco
7009	P23061	PEVYR4	Pelvis Steel Red Y	Lft	401.07161	g	+ 12/19/2002	OK	065nlr	Endevco
7010	P26422	RFSXG1	RGT SIDE SILL FRNT ST X	FWD	399.39778	g	+ 3/20/2003	OK	-1	Endevco
7011	J34122	RFSYG1	RGT SIDE SILL FRNT ST Y	LT	1004.0003	g	+ 3/4/2003	OK	-1	Endevco
7012	P26525	RFSZG1	RGT SIDE SILL FRNT ST Z	UP	401.75768	g	+ 3/20/2003	OK	-1	Endevco
7013	P25839	RRSXG1	RGT SIDE SILL RR ST X	FWD	400.83925	g	+ 3/20/2003	OK	-1	Endevco
7014	P25836	RRSYG1	RGT SIDE SILL RR ST Y	LT	986.28448	g	+ 3/20/2003	OK	-1	Endevco
7015	P26381	RRSZG1	RGT SIDE SILL RR ST Z	UP	401.67889	g	+ 3/20/2003	OK	-1	Endevco
7016	P25313	RDKXG1	RR FLR PAN ABV AXLE X	FWD	1005.2224	g	+ 1/21/2003	OK	-1	Endevco
7017	P25257	RDKYG1	RR FLR PAN ABV AXLE Y	LT	996.30278	g	+ 11/21/2002	OK	-1	Endevco
7018	P25321	RDKZG1	RR FLR PAN ABV AXLE Z	UP	991.28751	g	+ 3/13/2003	OK	-1	Endevco
7019	J34086	LRSYG1	LFT SIDE SILL RR ST Y	RT	975.98170	g	+ 3/4/2003	OK	-1	Endevco
7020	P23545	LFSYG1	LFT SIDE SILL FRNT ST Y	RT	983.10291	g	+ 3/3/2003	OK	-1	Endevco
7021	J35808	LFCYG1	LFT FRNT DOOR CTRLN Y	RT	1468.1424	g	+ 2/27/2003	OK	-1	Endevco
7022	P23384	RRTYG1	RGT RR OCP COMP Y	LT	1513.4048	g	+ 3/3/2003	OK	-1	Endevco
7023	P25812	LFMYG1	LFT FRNT DOOR MIDRR Y	RT	1447.8000	g	+ 3/20/2003	OK	-1	Endevco
7024	P19414	LFUYG1	LFT FRNT DOOR UPPER C/L	RT	1514.7928	g	+ 3/3/2003	OK	-1	Endevco
7025	P22808	LRMYG1	LFT RR DOOR MIDREAR Y	RT	1508.0113	g	+ 3/3/2003	OK	-1	Endevco
7026	P23188	LRYUG1	LFT RR DR UPPER CL Y	RT	1498.6535	g	+ 3/3/2003	OK	-1	Endevco
7027	P24451	LJBYG1	LFT LOWER B-POST Y	RT	1470.1659	g	+ 11/21/2002	OK	-1	Endevco
7028	P25329	LURYG1	LFT MID B-POST Y	RT	1493.9309	g	+ 1/22/2003	OK	-1	Endevco
7029	P25050	LLAYG1	LFT LOWER A-POST Y	LT	1491.1897	g	+ 11/22/2002	OK	-1	Endevco
7030	P25837	LUAYG1	LFT MID A-POST Y	LT	1438.5255	g	+ 3/20/2003	OK	-1	Endevco
7031	P26415	LFTYG1	LFT FRNT ST TRK Y	RT	1493.9309	g	+ 3/20/2003	OK	-1	Endevco
7032	P25807	LRTYG1	LFT RR ST TR Y	LT	1493.9309	g	+ 3/1/2003	OK	-1	Endevco

Channel Report

3/25/2003 7:55:54 AM

Name of Test 030325-1

Name of DAU DAU8

System MINIDAU

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pod. Cal.	Group	Mfg.	Model
8001	P23486	VCGXG1	VEH C/G X	FWD	1001.6433	+	3/3/2003	OK	-1
8002	P23459	VCGYG1	VEH C/G Y	RT	994.09754	+	3/3/2003	OK	-1
8003	P23488	VCGZG1	VEH C/G Z	UP	997.66173	-	3/3/2003	OK	-1
								Endevco	7264C-2K-2-180
								Endevco	7264C-2K-2-180
								Endevco	7264C-2K-2-180

Channel Report

3/25/2003 7:55:54 AM

Name of Test 030325-1

System MINIDAU

Name of DAU DAU9

Chan.#	Sensor #	Monomonic	Description	Dir.	Range	PoL	Cal.	Group	Mfg.	Model
9001	EVENT	EVENT	EVENT		5.12	V				
9002	J26763	BCGXG1	MDB CENTER OF GRAVITY	FWD	600.36819	g	+	10/15/2002	OK	-I
9003	J33398	BCGYG1	MDB CENTER OF GRAVITY	RJ	602.89199	g	+	3/4/2003	OK	-I
9004	J12724	BCGZG1	MDB CENTER OF GRAVITY	UP	600.15003	g	+	3/4/2003	OK	-I
9005	P21662	LRRXG1	MDB LEFT REAR X-AXIS	FWD	594.94759	g	+	2/13/2003	OK	-I
9006	P25519	LRRYG1	MDB LEFT REAR Y-AXIS	L.T	595.07205	g	-	3/4/2003	OK	-I
									TRC	Event
									Endevco	7264-2000TZ
									Endevco	7264-2000TZ
									Endevco	7264-2000TZ
									Endevco	7264C-2K-2-180
									Endevco	7264C-2K-2-180

Digital and System Channel Report

2003-03-25 07:55:31

Name of Test 030325-1
 enable Channel
 Yes 6501

System MINIDAU
 Type dig0

Name of DAU DAU6
 Data File DAT66501
 Module Type KM3710 Controller

bit position	bit	short	long	description
MSB = bit 15	1	SHLET1	DRIVER SHOULDER SWITCH	
bit 14	1	PEVET1	DRIVER PELVIS SWITCH	
bit 13	1	SHLET4	PASS SHOULDER SWITCH	
bit 12	1	PEVET4	PASS PELVIS SWITCH	
bit 11	0			
bit 10	0			
bit 09	0			
bit 08	0			
bit 07	0			
bit 06	0			
bit 05	0			
bit 04	0			
bit 03	0			
bit 02	0			
bit 01	0			
LSB = bit 00	0			

Digital and System Channel Report

2003-03-25 07:55:37

Name of Test		030325-1	System		MINIDAU	Name of DAU		DAU9	descriptio
enable Channel		Short Name	Type			Data File			Module Type
Yes 9501		DIG9	dig0			DAT99S01			KM3710 Controller

description

long
MDB RIGHT SIDE SWITCH
MDB LEFT SIDE SWITCH

short
MDBRI
MDBLI

bit position bit

MSB = bit 15 1
bit 14 1
bit 13 0
bit 12 0
bit 11 0
bit 10 0
bit 09 0
bit 08 0
bit 07 0
bit 06 0
bit 05 0
bit 04 0
bit 03 0
bit 02 0
bit 01 0
LSB = bit 00 0

Dummy 066nir Type SID Description NHTSA - 066n SID-LEFT IMP.W/ RED ACCELS CAL DUE 5-21-03(DKS 3-12-03)J211

Classname	Location	Model	Name	Manufacturer	Sens/mV/V/U	Fullscale	Caldate	Pos Output	Flip
HEDXG	Head Accel X	7264-2000TZ	J26980	Endevco	0.03084	g	2000	3/11/2003 Rwd	1
HEDYG	Head Accel Y	7264-2000TZ	J27048	Endevco	0.02666	g	2000	3/11/2003 Lft	1
HEDZG	Head Accel Z	7264-2000TZ	J26896	Endevco	0.02405	g	2000	3/11/2003 Up	1
HEDXR	Head Accel X Red	7264C-2K-2-18	P22890	Endevco	0.02217	g	2000	3/11/2003 Rwd	1
HEDYR	Head Accel Y Red	7264C-2K-2-18	P16213	Endevco	0.0163	g	2000	3/11/2003 Lft	1
HEDZR	Head Accel Z Red	7264C-2K-2-18	P18941	Endevco	0.02043	g	2000	3/11/2003 Up	1
NEKXF	Neck Force X	1716A	1716A-1220-FX	Denton	0.000194393	N	8896.4	3/10/2003 Hd Fd,Cst Rr	1
NEKYF	Neck Force Y	1716A	1716A-1220-FY	Denton	0.000189043	N	8896.4	3/10/2003 Hd Li,Cst Rr	0
NEKZF	Neck Force Z	1716A	1716A-1220-FZ	Denton	0.000098459	N	13344.6	3/10/2003 Hd Up,Cst Dn	0
NEKXM	Neck Moment X	1716A	1716A-1220-MX	Denton	0.005002832	N-m	282.5	3/10/2003 Rt Ear to Rt Shld	1
NEKYM	Neck Moment Y	1716A	1716A-1220-MY	Denton	0.005908673	N-m	282.5	3/10/2003 Chn to Strmm	0
NEKZM	Neck Moment Z	1716A	1716A-1220-MZ	Denton	0.008456991	N-m	282.5	3/10/2003 Chn to Lt Shld	0
LURYG	Left Upper Rib Y	7264C-2K-2-18	P24511	Endevco	0.0173	g	2000	11/21/2002 Rgt	0
LURYR	Left Upper Rib Red Y	7264C-2K-2-18	P21652	Endevco	0.02198	g	2000	11/21/2002 Rgt	0
LIRYG	Left Lower Rib Y	7264C-2K-2-18	P24508	Endevco	0.01723	g	2000	11/21/2002 Rgt	0
LLRYR	Left Lower Rib Red Y	7264C-2K-2-18	P24627	Endevco	0.01825	g	2000	11/21/2002 Rgt	0
T12YG	Lower Spine Y	7264C-2K-2-18	P21635	Endevco	0.01873	g	2000	11/21/2002 Lft	1
T12YR	Lower Spine Red Y	7264C-2K-2-18	P24564	Endevco	0.01875	g	2000	11/21/2002 Lft	1
PEVYG	Pelvis Accel Y	7264C-2K-2-18	P24393	Endevco	0.01963	g	2000	11/21/2002 Lft	1
PEVYR	Pelvis Accel Red Y	7264C-2K-2-18	P24559	Endevco	0.0172	g	2000	11/21/2002 Lft	1

Dummy 065nhr Type SID Description NHTSA - 065n SID-LEFT IMP. W/ RED ACCELS. CAL. DUE 6-19-03 (DKS 3-11-03)J211

Chsname	Location	Model	Name	Manufacturer	Sens./mV/V/U	Fullscale	Caldate	Pos Output	PtP
HEDXG	Head Accel X	7264-2000TZ	J27271	Endevco	g	2000	3/11/2003	Rwd	1
HEDYG	Head Accel Y	7264-2000TZ	J27352	Endevco	g	2000	3/11/2003	L0	1
HEDZG	Head Accel Z	7264-2000TZ	J27283	Endevco	g	2000	3/11/2003	Up	1
HEDXR	Head Accel X Red	7264-2000TZ	J29134	Endevco	g	2000	3/11/2003	Rwd	1
HEDYR	Head Accel Y Red	7264-2000TZ	J29020	Endevco	g	2000	3/11/2003	L0	1
HEDZR	Head Accel Z Red	7264-2000TZ	J27322	Endevco	g	2000	3/11/2003	Up	1
NEKXF	Neck Force X	1716	1716-0627-FX	Denton	0.000191111 N	8896.4	3/10/2003	Hd Fd, Cst Rr	1
NEKYF	Neck Force Y	1716	1716-0627-FY	Denton	0.000188514 N	8896.4	3/10/2003	Hd Lx, Cst Rt	0
NEKZF	Neck Force Z	1716	1716-0627-FZ	Denton	0.000085345 N	13344.6	3/10/2003	Hd Up, Cst Dn	0
NEKXM	Neck Moment X	1716	1716-0627-MX	Denton	0.005914336 N-m	282.5	3/10/2003	Rt Bar to Rt Shld	1
NEKYM	Neck Moment Y	1716	1716-0627-MY	Denton	0.005978761 N-m	282.5	3/10/2003	Chn to Strmm	0
NEKZM	Neck Moment Z	1716	1716-0627-MZ	Denton	0.00831469 N-m	282.5	3/10/2003	Chn to Lt Shld	0
LURYG	Left Upper Rib Y	7264C-2K-2-18	P25068	Endevco	0.01721 g	2000	12/19/2002	Rgt	0
LURYR	Left Upper Rib Red Y	7264C-2K-2-18	P25067	Endevco	0.01623 g	2000	12/19/2002	Rgt	0
LJRYG	Left Lower Rib Y	7264C-2K-2-18	P25389	Endevco	0.01642 g	2000	12/19/2002	Rgt	0
LLRYR	Left Lower Rib Red Y	7264C-2K-2-18	P25395	Endevco	0.02028 g	2000	12/19/2002	Rgt	0
T12YG	Lower Spine Y	7264C-2K-2-18	P14826	Endevco	0.01991 g	2000	12/19/2002	Lft	1
T12YR	Lower Spine Red Y	7264C-2K-2-18	P25069	Endevco	0.01692 g	2000	12/19/2002	Lft	1
PEVYG	Pelvis Accel Y	7264C-2K-2-18	P25397	Endevco	0.01827 g	2000	12/19/2002	Lft	1
PEVYR	Pelvis Accel Red Y	7264C-2K-2-18	P25061	Endevco	0.01798 g	2000	12/19/2002	Lft	1



SIDE IMPACTOR BARRIER CERTIFICATION

Date: March 11, 2003
To: Transportation Research
Ship & Rec Bldg 50
10820 St. Route 347
East Liberty, OH 43319-0367

PURCHASE ORDER INFORMATION

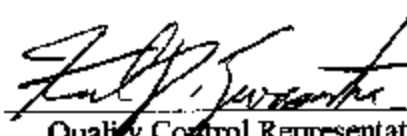
Customer P.O. Number: 022451
Work Order Number: 16059
Quantity: 01 piece

CORE INFORMATION

Core Type: PCGA-1/4-5.2-P-3003-T
Measured Cell Size: 0.250 inches
Measured Density: 5.2 pcf

Unit Number: 046B0103

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 232 - 250 psi as per DWG# DSL-1285.


Quality Control Representative
Karl D. Zwaanstra





PLASCORE

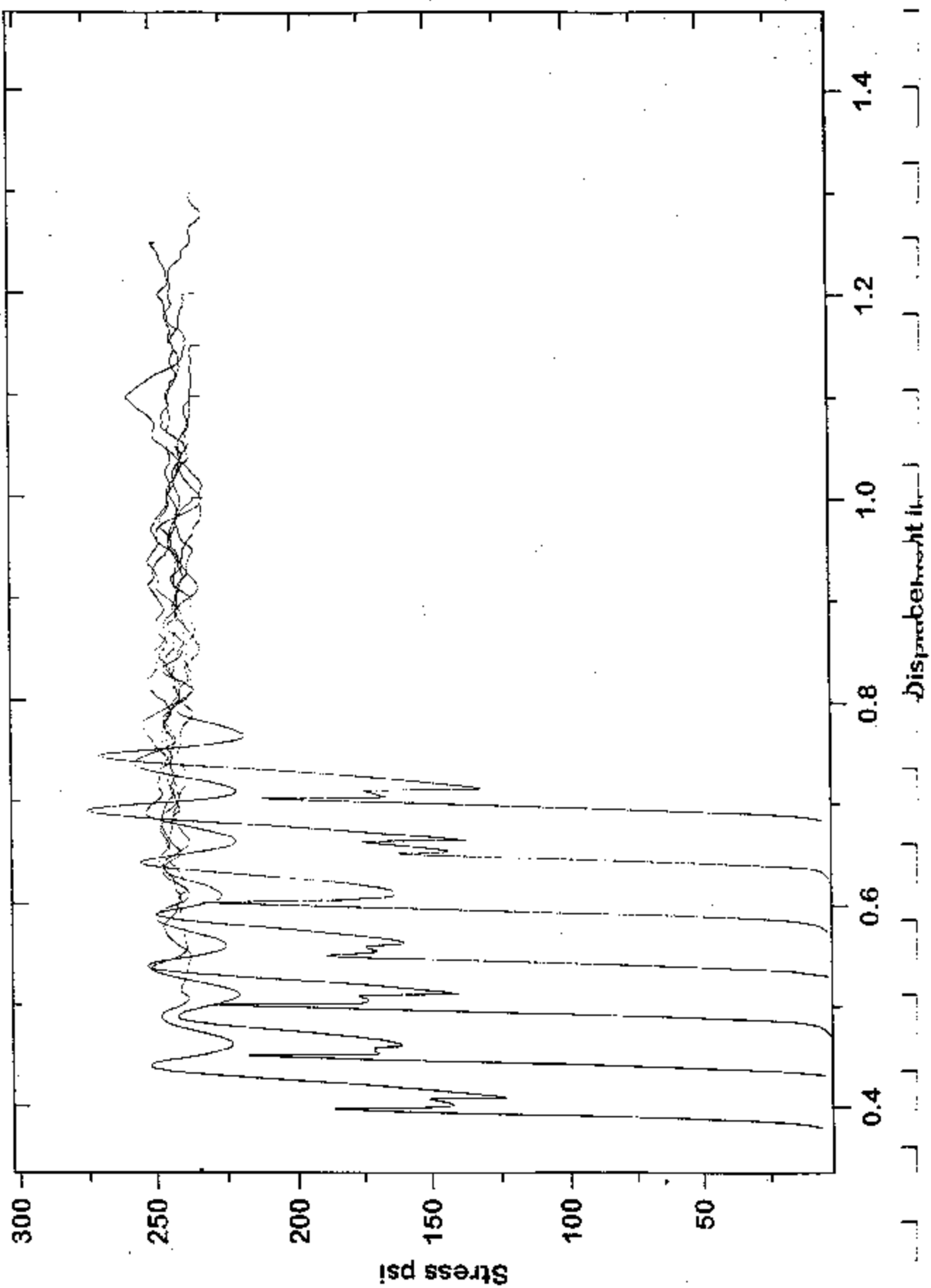
Crush Data

232 - 250 psi per DWG # DSL-1285

Block Number: 046B0103

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	241.78	238.32	238.98
2	244.12	237.80	235.41
3	246.33	246.94	239.45
4	242.25	240.86	236.53
5	241.20	243.39	240.85
6	247.03	242.20	243.97
7	241.00	246.36	237.47

BLOCK # 046B0103 Sample ID: IN226387



SIDE IMPACTOR BARRIER CERTIFICATION

Date: March 11, 2003
To: Transportation Research
Ship & Rec Bldg 50
10820 St. Route 347
East Liberty, OH 43319-0367

PURCHASE ORDER INFORMATION

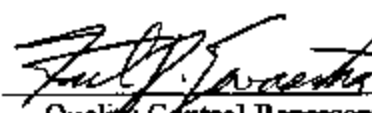
Customer P.O. Number: 02245
Work Order Number: 16059
Quantity: 01 piece

CORE INFORMATION

Core Type: PAMG-3/8-1.6-001-P-5052-T
Measured Cell Size: 0.375 inches
Measured Density: 1.6 pcf

Unit Number: 005A0203

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 45 psi +/- 2.5 psi as per DWG# DSL-1285.


Quality Control Representative
Karl D. Zwaanstra

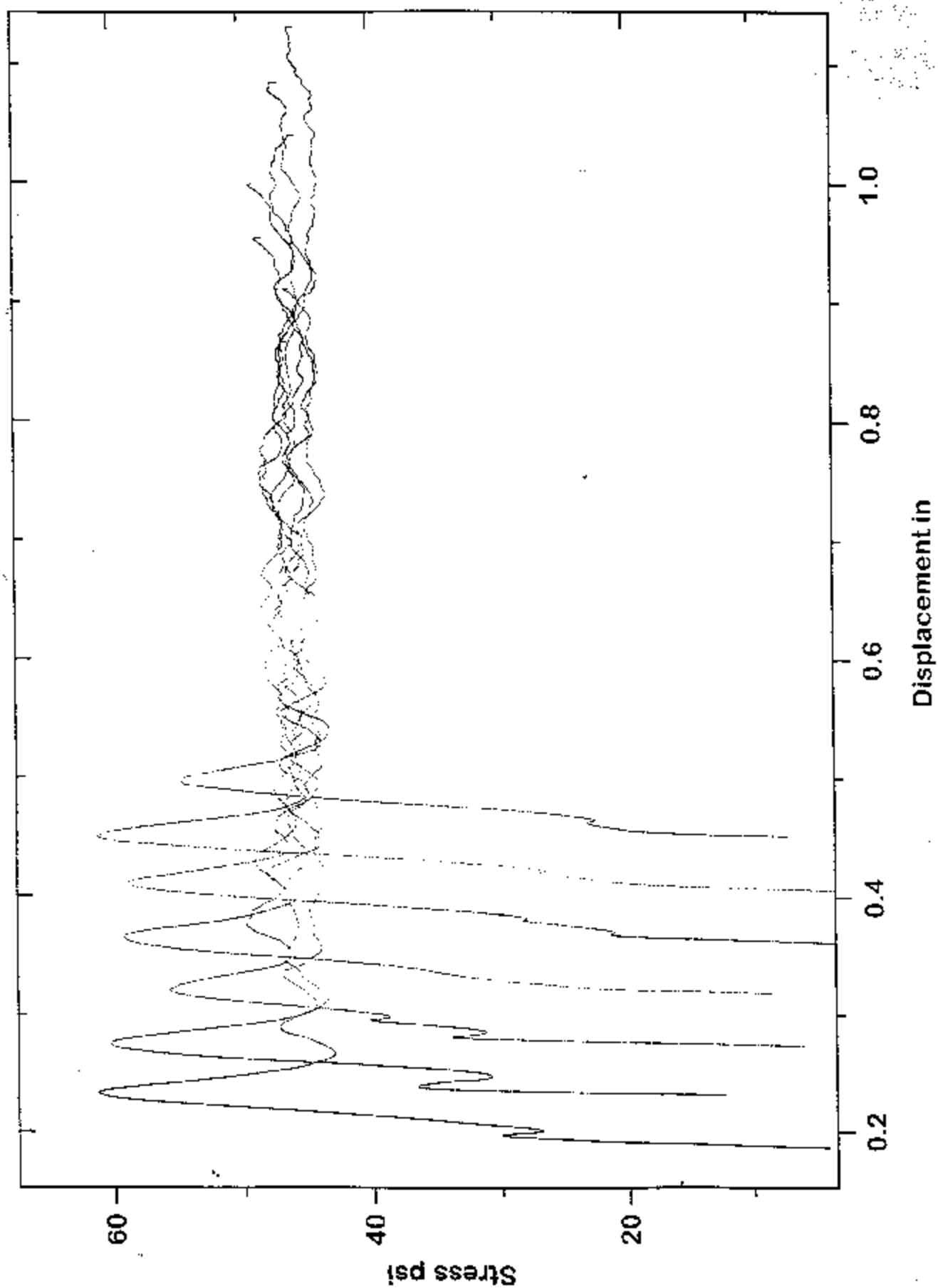


Crush Data
45 psi +/- 2.5 psi per DWG # DSL-1285

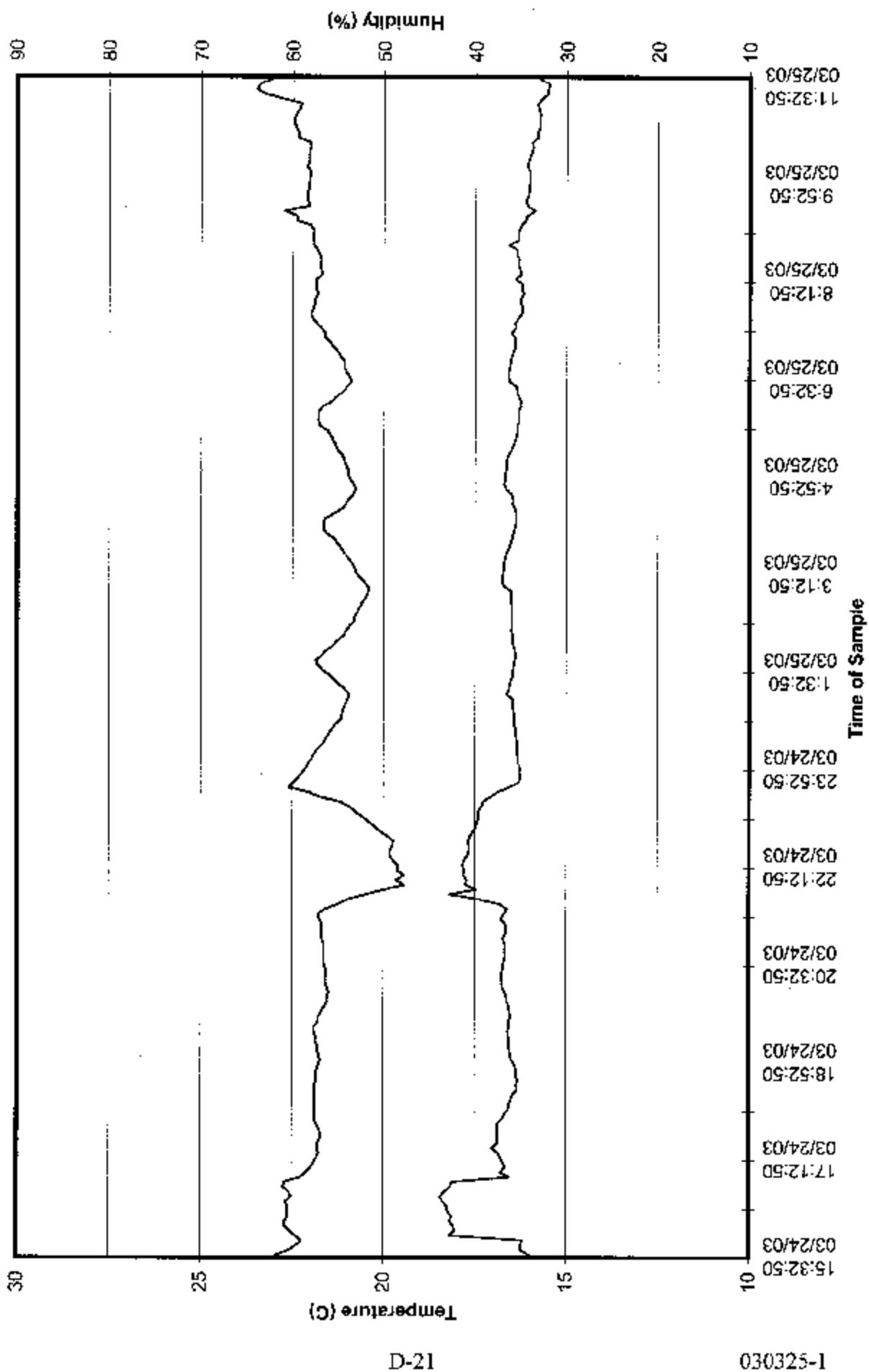
Block Number: 005A0203

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	46.25	47.39	46.76
2	44.68	44.49	44.62
3	47.12	45.48	44.57
4	45.24	45.73	45.37
5	46.90	47.34	46.19
6	47.20	45.96	45.40
7	46.26	45.31	44.16

BLOCK # 005A0203 Sample ID: IN226642



C35308 / 2003 HONDA ACCORD



Appendix E

Analysis of Test Results

TRC removed a left rear door trim panel so that an accelerometer could be installed. Honda presented information and data indicating that a cable attached to the inside door handle was not replaced correctly by TRC. Honda contends that this resulted in the door opening during the test, allowing greater intrusion by the moving deformable barrier resulting in increased TTI and pelvic g readings of the dummies. TRC stated that the left rear door trim and door handle were reassembled in the same manner as disassembled. Neither party has proved its case. OVSC concludes that the results of this test, conducted at NCAP speed (38.5 mph), do not exceed FMVSS No. 214 requirements, indicating that the vehicle would comply with the standard's requirements at 33.5 mph.